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Cooper, C.B., see Tongson 52 (1975) 263
Cota Araiza, L.S. and B.D. Powell, Study of surface dissociation in KCl and LiF by observation of plasmon losses associated with K and Li 51 (1975) 504
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Crandall, R.S., Properties of surface state electrons on liquid helium 58 (1976) 266
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Dahlberg, S.C., Photovoltage studies of clean and oxygen covered gallium arsenide 59 (1976) 83
Dahlberg, S.C., Photovoltage studies of n-type InP(100) 60 (1976) 231
Dash, J.G., see Bukshpan 52 (1975) 466
Dash, J.G., J. Suzanne, H. Shechter and R.E. Peierls, Direct measurement of spreading pressures of films adsorbed on crystalline substrates 60 (1976) 411
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Dawson, P.H., The oxidation of aluminum studied by SIMS at low energies 57 (1976) 229
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De Smet, D.J., Generalized ellipsometry and the 4 × 4 matrix formalism 56 (1976) 293
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De Wette, F.W. and L. Kleinman, A new lattice sum for use in obtaining self-consistent warped-muffin-tin potentials in metal films 60 (1976) 255
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Delgass, W.G., see Krishnan 57 (1976) 1
Den Engelsen, D., Optical anisotropy in ordered systems of lipids 56 (1976) 272
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Dericbourg, J., Adsorption de l'oxygène sur le graphite; nouvelle détermination graphique de l'entropie différentielle d'adsorption 59 (1976) 554
Dericbourg, J., Adsorption de l'hydrogène sur le graphite 59 (1976) 565
Desre, P., see Laty 60 (1976) 109
Desjonquères, M.C. and F. Cyrot-Lackmann, Electronic surface states in cleaved transition metals 53 (1975) 429
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Dion, D.R. and J.D. Doll, Semiclassical theory of atom/solid surface collisions: solution of Steele's model 58 (1976) 415
DiSalvo, F.J., Charge density waves in layered compounds 58 (1976) 297
DiStefano, T., see Lundström 59 (1976) 23
Djafari-Rouhani, B., P. Masri and L. Dobrzynski, Possibilité de surstructures d'interface 52 (1975) 29
Djafari-Rouhani, B., L. Dobrzynski et G. Allan, Sur l'entropie de vibration des défauts dans l'approximation d'Einstein 55 (1976) 663
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Domann, F.E., A radiotracer study of slow electron interaction with CO on

polycrystalline Mo 54 (1976) 529
Domke, M., J.H. Block and M. Drechsler, The influence of electric fields on adsorbed gases: FEM of oxygen on tungsten single crystal faces 51 (1975) 451
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Dorda, G., see Eisele 58 (1976) 169
Dorfeld, W.G., J.B. Hudson and R. Zuhr, The interaction of an O_2 molecular beam with an Fe(110) surface 57 (1976) 460
Doyen, G., Semiempirical model calculations for chemisorption on transition metals. I. Exact solution and discussion of a simple model 59 (1976) 461
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Drechsler, M., see Roux 59 (1976) 97
Drechsler, M., see Vin Thien Binh 60 (1976) 13
Ducros, R., G. Piquard, B. Weber et A. Cassuto, Spectres Auger du carbone; carbures de tantale et adsorption d'éthylène et de monoxyde de carbone sur tantale et rhénium polycristallin 54 (1976) 513
Ducros, R. and R.P. Merrill, The interaction of oxygen with Pt(110) 55 (1976) 227
Ducros, R., J.J. Ehrhardt, M. Alnot and A. Cassuto, Hydrogen and deuterium adsorption on polycrystalline rhenium surfaces; effect of carbon and oxygen coadsorption 55 (1976) 509
Dufayard, D., see Allié 57 (1976) 293
Duš, R., Hydrogen adsorption and absorption on evaporated Nb films 52 (1975) 440
Duš, R. and W. Lisowski, Studies on the possibility of determination of surface area of palladium films by means of adsorption of hydrogen or oxygen and reciprocal titration of these gases 59 (1976) 141

Edwards, Jr. D., Peak widths of elementary first and second order desorption transients 54 (1976) 1
Egelhoff, Jr. W.F., D.L. Perry and J.W. Linnett, The adsorption of mercury on tungsten (100) studied by ultra-violet photoelectron spectroscopy 54 (1976) 670
Eger, D., A. Many and Y. Goldstein, Quantum properties of strong accumulation layers on ZnO surfaces 58 (1976) 18
Ehrhardt, J.J., see Ducros 55 (1976) 509
Eisele, I., H. Gesch and G. Dorda, Mechanical stress influence on effective masses in Si inversion layers 58 (1976) 169
Ekelund, S., see Leygraf 51 (1975) 409
Elliot, A.G., The condensation of gold onto tantalum (100) single crystal surfaces: LEED, AES analysis 51 (1975) 489
Ellis, D.E., H. Adachi and F.W. Averill, Molecular cluster theory for chemisorption of first row atoms on nickel (100) surfaces 58 (1976) 497
Elshazly-Zaghloul, M., R.M.A. Azzam and N.M. Bashara, Explicit solution for the optical properties of a uniaxial crystal in generalized ellipsometry 56 (1976) 281
Endriz, J.E., see Flodström 53 (1975) 156
Engel, T., H. Niehus and E. Bauer, Adsorption of oxygen on W(110). I. The p(2 × 1) structure 52 (1975) 237
Engelhardt, H.A. and D. Menzel, Adsorption of oxygen on silver single crystal surfaces 57 (1976) 591
Englert, Th. and G. Landwehr, Magneto-transport properties of silicon inversion layers at low carrier densities 58 (1976) 217

Epler, D.C., see Castle 53 (1975) 286
Ernst, L., Comments on "Study of mercury surface diffusion on tantalum with and without an electric field by means of a field emission microscope" by K. Bobev and Z. Mireva 57 (1976) 449
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Ertl, G., see Conrad 58 (1976) 578
Ertl, G., see Christmann 60 (1976) 365
Estel, J., H. Hoinkes, H. Kaarmann, H. Nahr and H. Wilsch, On the problem of water adsorption on alkali halide cleavage planes, investigated by secondary ion mass spectroscopy 54 (1976) 393
Estrup, P.J., see Felter 54 (1976) 179
Evans, S., J. Pielaszek and J.M. Thomas, Oxidation of nickel studied by UV and X-ray photoelectron spectroscopy 55 (1976) 644
Ezawa, H., Inversion layer mobility with intersubband scattering 58 (1976) 25

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Färber, W., see Braun 51 (1975) 342
Fassaert, D.J.M. and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. I. Tight-binding calculations for adsorption on periodic surfaces 55 (1976) 291
Fassaert, D.J.M. and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. II. Cluster models for adsorption sites 55 (1976) 313
Feder, R., On the measurement of spin polarization in low energy electron diffraction by means of double diffraction 51 (1975) 297
Feder, R., see Gafner 57 (1976) 37
Feder, R. and G. Gafner, A low-energy electron diffraction study of Fe(110). II. Theory and comparison with the experiment 57 (1976) 45
Felter, T.E. and P.J. Estrup, Model of β-CO on Mo(100): dissociative adsorption 54 (1976) 179
Ferrante, J. and S.V. Pepper, Production of Ne Auger electrons by Ne bombardment of Mg and Al surfaces 57 (1976) 420
Ferrante, J. and S.V. Pepper, Production of Mg and Al Auger electrons by noble gas ion bombardment of Mg and Al surfaces 58 (1976) 613
Ferry, D.K., Optical and intervalley scattering in quantized inversion layers in semiconductors 57 (1976) 218
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Firment, L.E. and G.A. Somorjai, The surface structures of vapor-grown ice and napththalene crystals studied by low-energy electron diffraction 55 (1976) 413
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Flanagan, T.B., see Bucur 54 (1976) 477
Flodström, S.A., G.V. Hansson, S.B.M. Hagström and J.E. Endriz, Photoemission with polarized light from free-electron and transition metals 53 (1975) 156
Floyd, G.R. and R.H. Prince, Electron stimulated desorption of fluorine and barium from tungsten 59 (1976) 631
Folman, M., see Wilf 52 (1975) 10

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Foo, E.N. and L.G. Johnson, Surface Green function for a semi-infinite unsymmetric sp-band monatomic chain 55 (1976) 189
Foo, E.N. and S.G. Davison, Green function theory of chemisorption on sp-hybrid crystals 55 (1976) 274
Foo, E.-N., M.F. Thorpe and D. Weaire, Effective surface potential method for calculating surface states 57 (1976) 323
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Fromm, E., Mechanism of chemisorption and interface penetration in reactive systems at low temperatures 52 (1975) 401
Fromm, E., see Bauder 52 (1975) 415
Fromm, E., O. Mayer and W. Nickerson, Interrelation between thickness of oxygen and nitrogen chemisorption layers and thermochemical data 57 (1976) 775
Fuggle, J.C., T.E. Madey, M. Steinkilberg and D. Menzel, Photoelectron spectroscopic studies of adsorption of CO and oxygen on Ru(001) 52 (1975) 521
Fuggle, J.C. and D. Menzel, Coverage dependent shifts of XPS peaks during chemisorption on metals 53 (1975) 21
Fukuyama, H., Two-dimensional Wigner crystal in magnetic fields 58 (1976) 320
Fuller, D., J.S. Collignon and J.S. Williams, The application of correlated SIMS and RBS techniques to the measurement of ion implanted range profiles 54 (1976) 647
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Gadzuk, J.W., Angle resolved photoemission from chemisorbed layers: further theoretical considerations 53 (1975) 132
Gadzuk, J.W., Angle resolved Auger surface spectroscopy 60 (1976) 76
Gafner, G. and R. Feder, A low-energy electron diffraction study of Fe(110). I. Experimental 57 (1976) 37
Gafner, G., see Feder 57 (1976) 45
Gallon, T.E. and J.D. Nuttall, Solid state broadening in Auger spectra 53 (1975) 698
Garcia, N., J. Ibánez, J. Solana and N. Cabrera, Analysis of the methods proposed for computing the scattering of atoms from a hard corrugated surface model of He/LiF(001) 60 (1976) 385
Garibaldi, A.C. Levi, R. Spadacini and G.E. Tommei, Quantum theory of molecule–surface scattering: rotational transitions 55 (1976) 40
Garry, G.A., see Guichar 58 (1976) 374
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Gasser, R.P.H., C.V. Jackson and F.E. Rolling, The decomposition of methanol on tungsten 52 (1975) 199
Gasser, R.P.H. and D.E. Holt, Simultaneous and sequential adsorption of deuterium and nitrous oxide by rhenium 52 (1975) 457
Gasser, R.P.H. and D.E. Holt, The decomposition of methanol at low pres-

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Gelb, A. and M. Cardillo, Classical trajectory studies of hydrogen dissociation on on a Cu(100) surface 59 (1976) 128
Gerhardts, R.R., Cumulant approach to the two-dimensional magneto-conductivity problem 58 (1976) 227
Gerischer, H., see Kolb 51 (1975) 323
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Gesch, H., see Eisele 58 (1976) 169
Geschke, D., W.-D. Hoffmann and D. Deininger, Quantum chemical and NMR investigations on structure of surface complexes 57 (1976) 559
Gettings, M. and J.P. Coad, A preliminary study of pure metal surfaces using Auger electron spectroscopy (AES), X-ray photoelectron spectroscopy (XPS) and secondary ion mass spectroscopy (SIMS) 53 (1975) 636
Gillet, E., J.C. Chiarena et M. Gillet, Etude par spectrométrie Auger et par spectrométrie de masse de la chimisorption de l'oxyde de carbone sur le molybdène polycristallin 54 (1976) 601
Gillet, E., J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
Gillet, M., see Gillet 54 (1976) 601
Gillet, M., see Gillet 55 (1976) 126
Glachant, A., J.P. Coulomb and J.P. Biberian, AES and LEED studies of xenon adsorption on (100)NaCl 59 (1976) 619
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Goldstein, B., D.J. Szostak and V.S. Ban, Langmuir evaporation from the (100), (111A), and (111B) faces of GaAs 57 (1976) 733
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Goodman, F.O., Application of a one-dimensional classical model of atom-oscillator scattering to atom-surface accommodation coefficient theory 60 (1976) 45
Göpel, W. and G. Neuenfeldt, Debye temperatures and step arrays of ZnO ($10\bar{1}0$) surface determined by LEED 55 (1976) 362
Gottesfeld, S., M. Babai and B. Reichman, Combined ellipsometric and reflectometric measurements of surface processes on noble metal electrodes 56 (1976) 373
Gottesfeld, S., M. Babai and B. Reichmann, The analysis of surface processes on solid electrons by combined modulated ellipsometric and reflectometric experiments 57 (1976) 251
Grange, G., R. Landers and B. Mutaftschiev, Contact angle and surface morphology of KCL crystal-melt interface studied by the "bubble method" 54 (1976) 445
Grant, J.T., M.P. Hooker and T.W. Haas, Spectrum subtraction techniques in Auger electron spectroscopy 51 (1975) 318
Grant, J.T., see Hooker 51 (1975) 328
Grant, J.T., M.P. Hooker and T.W. Haas, Appearance potential spectroscopy: relative signal strengths from 3d transition metals 51 (1975) 433
Grant, J.T., see Hooker 55 (1976) 741

Grant, J.T., see Hooker 58 (1976) 628
Grant, J.T., M.P. Hooker, R.W. Springer and T.W. Haas, The application of tailored modulation techniques to depth profiling with Auger electron spectroscopy 60 (1976) 1
Gregory, P.E. and W.E. Spicer, Photoemission study of the adsorption of O_2, CO and H_2 on GaAs(110) 54 (1976) 229
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Grepstad, J.K., P.O. Gartland and B.J. Slagsvold, Anisotropic work function of clean and smooth low index faces of aluminium 57 (1976) 348
Grimes, C.C., see Zipfel 58 (1976) 283
Grimes, C.C. and G. Adams, Plasmons in a sheet of electrons on liquid helium (extended abstract) 58 (1976) 292
Guichar, G.M., C.A. Sébenne, G.A. Garry and M. Balkanski, Structure dependent oxidation of clean Si(111) surfaces 58 (1976) 374
Guillot, C., R. Riwan and J. Lecante, Dissociation of CO on Mo(100) 59 (1976) 581
Gültepe, M.A.B., Some considerations on the determination of optical properties of adsorbed films 56 (1976) 76
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Gurman, S.J., Theory of surface states. II. The copper and tungsten(001) surfaces 55 (1976) 93
Gurman, S.J. and J.B. Pendry, Ferromagnetic surface states of antiferromagnetic nickel sulphide 57 (1976) 241
Guttmann, M., Equilibrium segregation in a ternary solution: a model for temper embrittlement 53 (1975) 213

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Hagen, D.I., B.E. Nieuwenhuys, G. Rovida and G.A. Somorjai, Low-energy electron diffraction, Auger electron spectroscopy, and thermal desorption studies of chemisorbed CO and O_2 on the (111) and stepped [6(111) × (100)] iridium surfaces 57 (1976) 632
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Hagstrum, H.D., The determination of energy-level shifts which accompany chemisorption 54 (1976) 197
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Hall, P.M. and J.M. Morabito, A formalism for extracting diffusion coefficients from concentration profiles 54 (1976) 79
Hall, P.M. and J.M. Morabito, A formalism for determining grain boundary diffusion coefficients using surface analysis 59 (1976) 624
Haman, D.R., see Appelbaum 58 (1976) 479
Hamelin, A. and J. Lecoeur, The orientation dependence of zero charge potentials and surface energies of gold crystal faces 57 (1976) 771
Hansen, R.S., see Baikerikar 54 (1976) 195
Hanson, G.R. and M.G. Inghram, Surface dependence of field ion energy distributions, He on W 55 (1976) 29
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Harrison, W.A., Surface reconstruction on semiconductors 55 (1976) 1
Hartstein, A. and A.B. Fowler, Oxide-charge-induced impurity band in silicon inversion layers (abstract only) 58 (1976) 71
Hartstein, A., T.H., Ning and A.B. Fowler, Electron scattering in silicon inversion layers by oxide and surface roughness (extended abstract) 58 (1976) 178
Hauge, P.S., Generalized rotating-compensator ellipsometry 56 (1976) 148
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Hayfield, P.C.S., Ellipsometry as an aid in studying metallic corrosion problems 56 (1976) 488
Heine, V., Electron states at surfaces (abstract only) 53 (1975) 408
Heiland, W., F. Iberl, E. Taglauer and D. Menzel, Oxygen adsorption on (110) silver 53 (1975) 383
Heitmann, D. and H. Raether, Light emission of nonradiative surface plasmons from sinusoidally modulated silver surfaces 59 (1976) 17
Helbert, J.N., see Caplan 54 (1976) 33
Helms, C.R., K.Y. Yu and W.E. Spicer, Further evidence for equilibrium surface segregation in the Cu–Ni alloys – CO and H_2 chemisorption 52 (1975) 217
Helms, C.R. and R.J. Madix, Molecular beam relaxation spectrometry (MBRS) measurement of the desorption rate constant for CO on Ni(110) 52 (1975) 677
Helms, C.R., see Burton 57 (1976) 425
Henneke, H.W., see Lechert 51 (1975) 189
Henrich, V.E., Thermal faceting of (110) and (111) surfaces of MgO 57 (1976) 385
Henty, D.N. and H.G. Jerrard, A universal ellipsometer 56 (1976) 170
Henzler, M., see Sinharoy 51 (1975) 75
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Hess, K., Magnetoresistance of n-silicon inversion layers in the ohmic and in the hot-electron range 58 (1976) 235
Hicter, P., see Bernard 52 (1975) 340
Higginbotham, I.G., R.H. Williams and A.J. McEvoy, Adhesion at gold–mica interfaces (abstract only) 53 (1975) 581
Hirth, J.P. and C.W. Price, Nonlinear contributions to the relation between surface stress and surfaces energy 57 (1976) 446
Hirth, J.P., see Price 57 (1976) 509
Ho, P.S. and J.E. Lewis, Deconvolution method for composition profiling by Auger sputtering technique 55 (1976) 335
Ho, P.S., J.E. Lewis, H.S. Wildman and J.K. Howard, Auger study of preferred sputtering on binary alloy surfaces 57 (1976) 393
Ho, W., S.L. Cunningham and W.H. Weinberg, Single atom chemisorption on a bcc metal 54 (1976) 139
Hoareau, A., P. Joyes, B. Cabaud and R. Uzan, Electronic structure of selenium aggregates by a self-consistent method including 4d orbitals 57 (1976) 279
Hockney, R.W., see Brown 58 (1976) 295
Hoffmann, F., see Bradshaw 52 (1975) 449
Hoffmann, F., see Bradshaw 54 (1976) 692
Hoffmann, W.-D., see Geschke 57 (1976) 559
Hoinkes, F., see Estel 54 (1976) 393
Højlund Nielsen, P.E. and J.M. Cowley, Surface imaging using diffracted electrons 54 (1976) 340
Holland, B.W., see McDonnell 51 (1975) 249
Holloway, D.M., see Sickafus 51 (1975) 131
Holloway, P.H., Chemical shifts in Auger electron spectra from silicon in

silicon nitride 54 (1976) 506
Holmlid, L. and J.O. Olsson, Molecular beam surface ionization detection. I. Absolute ionization coefficients and work function of "low work function" Pt (8%W) surfaces 55 (1976) 523
Holt, D.E., see Gasser 52 (1975) 457
Holt, D.E., see Gasser 55 (1976) 690
Honig, E.P. and B.R. de Koning, Ellipsometric investigation of the skeletonization process of Langmuir–Blodgett films 56 (1976) 454
Hooker, M.P., see Grant 51 (1975) 318
Hooker, M.P. and J.T. Grant, Some factors affecting depth profiling measurements using Auger electron spectroscopy 51 (1975) 328
Hooker, M.P., see Grant 51 (1975) 433
Hooker, M.P. and J.T. Grant, Auger electron spectroscopy studies of CO on Ni spectral line shapes and quantitative aspects 55 (1976) 741
Hooker, M.P. and J.T. Grant, Auger electron spectroscopy studies of CO on Ni spectral line shapes and quantitative aspects (E) 58 (1976) 628
Hooker, M.P., see Grant 60 (1976) 1
Hopfinger, A.J., see Mauritz 55 (1976) 81
Hopkins, B.J., G.D. Watts and A.R. Jones, The adsorption of oxygen on tungsten(100) – temperature effects 52 (1975) 715
Hopkins, B.J., see Taylor 53 (1975) 500
Hopkins, B.J. and G.D. Watts, An Auger spectroscopic study of the coadsorption of O_2 + CO, and O_2 + CO_2 on a W(111) surface 55 (1976) 729
Hopkins, B.J., A.R. Jones and R.I. Winton, An AES, LEED and work function study of CO_2 adsorption on W(100) 57 (1976) 266
Hopkins, B.J., see Chesters 59 (1976) 46
Hopper, M.A., R.A. Clarke and L. Young, Removal of oxide films from silicon surfaces in a high vacuum system: an in situ ellipsometric study 56 (1976) 472
Horkans, J., Comment on the use of "Kramers–Kronig analysis for the determination of the optical constants of thin surface films" by K. Naegele and W.J. Plieth 55 (1976) 713
Horn, K. and J. Pritchard, Wavelength modulated infrared reflection–absorption spectroscopy: ethane adsorbed on Cu(110) 52 (1975) 437
Horn, K. and J. Pritchard, Infrared spectrum of CO chemisorbed on Cu(100) 55 (1976) 701
Horng, C.T. and R.W. Vook, The anomalous RHEED patterns observed from (111)Ag–(111)Cu bilayers 54 (1976) 309
Hottier, F., see Theeten 58 (1976) 583
Howard, J.K., see Ho 57 (1976) 393
Howie, A., see Baines 53 (1975) 546
Huber, M., see Bibérian 55 (1976) 259
Hudson, J.B., see Dorfeld 57 (1976) 460
Huijser, A. and J. van Laar, Work function variations of gallium arsenide cleaved single crystals 52 (1975) 202
Hulpke, E., Scattering of Li^+ from LEED characterized W(110) and Si(111) surfaces at energies between 2 and 20 eV 52 (1975) 615
Hulse, J.E. and M. Moskovits, The interaction of CO with matrix-isolated Ni clusters: a model for CO chemisorbed on Ni 57 (1976) 125
Hultquist, G., see Leygraf 51 (1975) 409
Hunderi, O. and R. Ryberg, A simple automatic ellipsometer for a wide energy range 56 (1976) 182
Hunderi, O., Ellipsometric study of lithium hydroxide overlayers on lithium 57 (1976) 451

Hurkmans, A., E.G. Overbosch, D.R. Olander and J. Los, The trapping of potassium atoms by a polycrystalline tungsten surface as a function of energy and angle of incidence 54 (1976) 154
Hurkmans, A., see Trilling 59 (1976) 361
Hurkmans, A., E.G. Overbosch and J. Los, Trapping probabilities and desorption energies of alkali atoms on a clean and an oxygen covered tungsten (100) surface 59 (1976) 488
Hurych, Z., see Brodén 59 (1976) 593
Hutchins, B.A., T.N. Rhodin and J.E. Demuth, Surface crystallography of the c(2×2) sodium overlayer on Al(100) 54 (1976) 419
Ibach, H., Relations between electronic properties of clean surfaces and activated adsorption 53 (1975) 444
Ibanez, J., see Garcia 60 (1976) 385
Iberl, F., see Heiland 53 (1975) 383
Ichiji, K., see Kawabata 56 (1976) 316
Inghram, M.G., see Hanson 55 (1976) 29
Isett, L.C. and J.M. Blakely, Segregation isosteres for carbon at the (100) surface of nickel 58 (1976) 397
Ishitani, T., H. Tamura and T. Shinmiyo, Fundamental investigations of secondary ion production during ion bombardment 55 (1976) 179
Iwasaki, H. and S. Nakamura, Ion current generation in the field ion microscope. I. Dynamic approach 52 (1975) 588
Iwasaki, H. and S. Nakamura, Ion current generation in the field ion microscope. II. Quasi-static approach 52 (1975) 597
Iwasaki, H. and S. Nakamura, On the depth profiles by ESCA 57 (1976) 779

Jackson, C.V., see Gasser 52 (1975) 199
Jacobi, K., Surface states on phosphorus- and gallium-rich GaP($11\bar{1}$) surfaces in electron energy-loss spectroscopy and photoemission 51 (1975) 29
Jacobi, K., G. Steinert and W. Ranke, Iodine etching of the GaAs($11\bar{1}$)As surface studied by LEED, AES, and mass spectroscopy 57 (1976) 571
Janssen, A.P., Electron stimulated desorption of sodium and measurement of surface diffusion on MgO{001} by Auger spectroscopy 52 (1975) 230
Janssen, A.P., and R.C. Schoonmaker, An Auger and reflection electron diffraction investigation of oxygen and hydrogen adsorption on strontium surfaces 55 (1976) 109
Jaroniec, M. and W. Rudziński, Adsorption of gas mixtures on heterogeneous surfaces: the integral representation for a monolayer total adsorption isotherm 52 (1975) 641
Jaroniec, M., S. Sokolowski and W. Rudziński, Some remarks on the maximum adsorption energy 54 (1976) 189
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Jepsen, D.W., see Marcus 53 (1975) 501
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Jewsbury, P., On the interpretation of rainbow scattering in gas atom/surface collisions 52 (1975) 325
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Joyes, P., see Hoareau 57 (1976) 279
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Jupille, J. et A. Cassuto, Interaction de l'oxygène aux basses pressions avec la solution solide niobium–oxygène à haute température. I. Equilibre de segrégation – chimisorption 60 (1976) 177

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Kahn, L.M. and S.C. Ying, A model for alkali chemisorption 59 (1976) 333
Kalitzova, M., see Simov 59 (1976) 115
Kamgar, A. and P. Kneschaurek, Spectroscopy of surface charge layers on p-type Si (extended abstract) 58 (1976) 135
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Kärger, J., On the correlation between diffusion and self-diffusion processes of adsorbed molecules in a simple microkinetic model 57 (1976) 749
Kasemo, B. and L. Walldén, Photon and electron emission during halogen adsorption on sodium 53 (1975) 393
Kashchiev, D., Kinetics of thin film coalescence due to crystallite surface migration 55 (1976) 477
Kasupke, N. and M. Henzler, Surface state properties of clean cleaved silicon as derived from the temperature dependence of the surface photovoltage 54 (1976) 111
Kawabata, S. and K. Ichiji, Optical anisotropy in the plane parallel to the surface of obliquely evaporated gold films 56 (1976) 316
Kawaguchi, Y. and S. Kawaji, Impurity band conduction in cesium adsorbed n-channel Si inversion layers 58 (1976) 33
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Kawai, T., see Kunimori 54 (1976) 525
Kawaji, S., see Kawaguchi 58 (1976) 33
Kawaji, S. and J. Wakabayashi, Quantum galvanomagnetic properties of n-type inversion layers on Si(100) MOSFET 58 (1976) 238
Kawasaki, K. and T. Kodama, Relation between activity of sorbed water vapor and wettability on polymer surfaces 51 (1975) 294
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Kelly, J.C., see Martin 60 (1976) 349
Kelly, R. and J.B. Sanders, Recoil implantation from a thin source. I. Underlying theory and numerical results 57 (1976) 143
Kennedy, T.A., R.J. Wagner, B.D. McCombe and D.C. Tsui, Frequency dependent effective masses in Si inversion layers at metallic densities 58 (1976) 185
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Kim, K.S., W.E. Baitinger and N. Winograd, X-ray photoelectron spectroscopic studies of PbO surfaces bombarded with He^+, Ne^+, Ar^+, Xe^+ and Kr^+ 55 (1976) 285

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Kolb, D.M. and H. Gerischer, Further aspects concerning the correlation between underpotential deposition and work function differences 51 (1975) 323
Koma, A. and R. Ludeke, Core- and valence-electron spectra of clean Si surfaces by energy loss spectroscopy 55 (1976) 735
Komninos, Y., see Matthew 53 (1975) 716
Kondow, T., see Kunimori 54 (1976) 525
Kondow, T., see Kunimori 59 (1976) 302
Kosyachkov, A.A., see Cherepin 58 (1976) 609
Kotthaus, J.P. and H. Kübleck, Temperature dependence of the cyclotron resonance in electron inversion layers on Si (extended abstract) 58 (1976) 199
Krakow, W. and D.G. Ast, Surface structure and surface lattice constant of (001) vapor deposited Au films using high resolution transmission electron microscopy 58 (1976) 485
Kramer, D.K., see Adams 56 (1976) 482
Kramer, H.M. and J. Suzanne, Adsorption of krypton on the basal plane of graphite: LEED and Auger measurements 54 (1976) 659
Kramer, H.M., see Venables 55 (1976) 373
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Krishnan, N.G., W.G. Delgass and W.D. Robertson, X-ray photoelectron spectroscopy of oxygen adsorption on clean Ni(100) surfaces 57 (1976) 1
Kruger, J. and J.R. Ambrose, Qualitative use of ellipsometry to study localized corrosion processes 56 (1976) 394
Krylov, S.Yu., see Borman 55 (1976) 705
Kübleck, H., see Kotthaus 58 (1976) 199
Kumar, R. and H.E. Grenga, Surface energy anisotropy of tungsten 59 (1976) 612
Kunimori, K., T. Kawai, T. Kondow, T. Onishi and K. Tamaru, High resolution Auger electron spectroscopic study of nitrogen species adsorbed on a Pd surface; hydrogenation and dehydrogenation of NH_x adsorbed on a Pd surface 59 (1976) 302
Kunimori, K., T. Kawai, T. Kondow, T. Onishi and K. Tamaru, Chemical effects of the nitrogen K-LL Auger spectra of chemisorbed N_2 on Fe and Mo surfaces 54 (1976) 525
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Kuriyama, K., see Senzaki 55 (1976) 697
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Laflère, W.H., R.L. Van Meirhaeghe, F. Cardon and W.P. Gomes, On the frequency-dependence of the impedance of n- and p-type gallium arsenide electrodes 59 (1976) 401
Lagos, M. and L. Birstein, Inelastic scattering of atoms by solid surfaces 51 (1975) 469
Lagos, M. and L. Birstein, Multiphonon atomic scattering by solid surfaces 52 (1975) 391
Lakhani, A.A., see Cole 58 (1976) 56
Lakhani, A.A. and P.J. Stiles, Effect of substrate bias on the mobility and scattering time of electrons in Si inversion layers 58 (1976) 193
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Lea, C. and M.P. Seah, Site competition in surface segregation 53 (1975) 272
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Le Bossé, J.C. and J. Lopez, Contribution of the indirect coupling to the binding energy of a chemisorbed diatomic molecule 58 (1976) 621
Lecante, J., see Guillot 59 (1976) 581
Lechert, H. und H.W. Henneke, Untersuchungen der Protonenresonanz von adsorbiertem Wasser an Zeolithen des Faujasit-Typs mit verschiedenen Silicium-Aluminium-Verhältnissen 51 (1975) 189
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Lee, B.W. and P. Mark, Effect of Bragg–Williams disorder on reconstructed polar surfaces of tetrahedrally coordinated compound semiconductors by optically simulated LEED patterns 52 (1975) 285
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Lee, T.K. and J.J. Quinn, Quantum oscillations in screening in a two-dimensional electron gas 58 (1976) 148

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Lee, T.K., C.S. Ting and J.J. Quinn, Microscopic calculation of the Fermi liquid interaction constants for electrons in the surface inversion layer of a semiconductor 58 (1976) 246
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Legrand-Bonnyns, E. and A. Ponslet, Pre-oxidation structures at 650°C on Cu(100), (210) and (841) surfaces studied by RHEED and microscopy 53 (1975) 675
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Lemasson, P., A.M. Baticle et P. Vennereau, Mesures d'impédances en électrochimie des semi-conducteurs; influence des états de surface 59 (1976) 177
Lemons, R.S. and G.M. Rosenblatt, Thermal accommodation coefficients by high speed vibration of solid samples. III. Gaseous As_4 on arsenic(111) surfaces 59 (1976) 293
Le Roy, R.J., Determining potential energy constants for atom- and molecule-surface interactions 59 (1976) 541
Leung, C. and R. Gomer, A low temperature precursor to chemisorbed oxygen on tungsten(110) 59 (1976) 638
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Leynaud, M. and G. Allan, Adsorption of transition metal monolayers on tungsten surfaces 53 (1975) 359
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Licciardello, D.C. and D.J. Thouless, Universality and transport in two-dimensional disordered systems (extended abstract) 58 (1976) 89
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Löffler, D.G. and L.D. Schmidt, Kinetics of NH_3 decomposition on single crystal planes of Pt 59 (1976) 195
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MacDonald, R.J., see Martin 60 (1976) 349
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Madey, T.E., J.J. Czyzewski and J.T. Yates, Jr., Ion angular distributions in electron stimulated desorption: oxygen and CO on W(111) 57 (1976) 580
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Madix, R.J. and J.L. Falconer, Surface stabilized reaction intermediate: formic anhydride 51 (1975) 546
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Maltby, J.R., C.E. Reed and C.G. Scott, Analysis of the surface photovoltaic effect in photoconductors: CdS 51 (1975) 89
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Marcus, P.M., J.E. Demuth and D.W. Jepsen, Determination of the structure of ordered adsorbed layers by analysis of LEED spectra 53 (1975) 501
Marcus, P.M., see Shih 60 (1976) 445
Margoninski, Y., D. Segal and R.E. Kirby, The interference of an electron beam with the surface reaction between oxygen and germanium 53 (1975) 488
Marinelli, F., A. Julg et G. Abbate, Etude théorique SCF ab initio du système Li_4 pour diverses configurations planes 59 (1976) 319
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Martin, P.J., A.R. Bayly, R.J. MacDonald, N.H. Tolk, G.J. Clark and J.C. Kelly, De-excitation processes near the surface of ion bombarded SiO_2 and Si 60 (1976) 349
Ma, S.M., D.L. Coleman and J.D. Andrade, Ellipsometry studies of albumin films on tantalum oxide and SiO_2 56 (1976) 117
Masri, P., see Djafari-Rouhani 52 (1975) 29
Masri, P. and M. Lannoo, A calculation of the intrinsic (111) surface states of the zinc blende $A^N B^{8-N}$ compounds 52 (1975) 377
Matheson, C.C., J.G. Wright, R. Gundermann and H. Norris, A high precision, polychromatic, automatic ellipsometer 56 (1976) 196

Mathieu, H.J. and D. Landolt, Quantitative Auger electron spectroscopy analysis of Ag–Pd and Ni–Pd alloys 53 (1975) 228
Mathieu, M.-V., et M. Primet, Inhibition par le cuivre de l'adsorption du monoxyde de carbone sur les alliages nickel–cuivre 58 (1976) 511
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Matthew, J.A.D. and Y. Komninos, Transition rates for interatomic Auger processes 53 (1975) 716
Mauritz, K.A. and A.J. Hopfinger, Theory of the epitaxial crystallization of polymers. IV. Chain packing energetics of the initially deposited monolayer – application of the PE–NaCl system 55 (1976) 81
Mayer, O., see Fromm 57 (1976) 775
McCabe, R.W. and L.D. Schmidt, Adsorption of H_2 and CO on clean and oxidized (110)Pt 60 (1976) 85
McCarroll, J.J., Surface physics and catalysis 53 (1975) 297
McCarty, J.G. and R.J. Madix, The adsorption of CO, H_2, CO_2 and H_2O on carburized and graphitized Ni(110) 54 (1976) 121
McCarty, J.G. and R.J. Madix, Formic acid desorption from graphitized Ni(110) 54 (1976) 210
McCombe, B.D., see Kennedy 58 (1976) 185
McDavid, J.M. and S.C. Fain, Jr., Segregation at Cu–Au alloy surfaces 52 (1975) 161
McDavid, J.M. and S.C. Fain, Jr., LEED using a CMA 52 (1975) 670
McDonnell, L., D.P. Woodruff and B.W. Holland, Angular dependence of Auger electron emission from Cu(111) and (100) surfaces 51 (1975) 249
McElhiney, G., H. Papp and J. Pritchard, The adsorption of Xe and CO on Ag(111) 54 (1976) 617
McElhiney, G. and J. Pritchard, The adsorption of Xe and CO on Au(100) 60 (1976) 397
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McRae, E.G. and C.W. Caldwell, Elastic-scattering resonance observed in very low energy electron reflection at oxygenated Ni(100) surfaces 57 (1976) 63
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McRae, E.G., Calculation of absorptive potentials for low energy electron scattering from optical data for solid Mg, Al, Cu, Ag, Au, Bi, C and Al_2O_3 57 (1976) 761
McRae, E.G. and C.W. Caldwell, Absorptive potential in nickel from very low energy electron reflection at Ni(001) surface 57 (1976) 766
Mecea, V., see Bucur 54 (1976) 477
Meclewski, R., see Blaszczuszyn 51 (1975) 396
Meclewski, R., Ch. Kleint and R. Blaszczyszyn, Correlation of field emission flicker noise and work function for tungsten single crystal planes with adsorbed potassium 52 (1975) 365
Melius, C.F., J.W. Moskowitz, A.P. Mortola, M.B. Baillie and M.A. Ratner, A molecular complex model for the chemisorption of hydrogen on a nickel surface 59 (1976) 279
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Meyer, F., Ellipsometric studies of adsorption reactions on clean surfaces 56 (1976) 37
Meyers, J.A. and D.R. Frankl, Selective adsorption of ^{4}He on clean LiF(001) surfaces 51 (1975) 61
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Michel, D. and V. Rössiger, Proton spin relaxation of butenes and butane in CaNaA zeolites 54 (1976) 463
Michel, S., T.T.A. Nguyen and R. Cinti, Adsorption of indium on (100) and (110) silicon substrates 54 (1976) 509
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Millot, F., Adsorption du krypton sur le chlorure ferrique et contribution à l'énergie d'adsorption des interactions cation-adsorbat 55 (1976) 717
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Miyazaki, E. and I. Yasumori, An evaluation of heats of chemisorption of gases by an empirical method 55 (1976) 747
Miyazaki, E. and I. Yasumori, Chemisorption of O_2 and NO molecules on transition d-metals 57 (1976) 755
Modinos, A., see Nicolaou 53 (1975) 443
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Mojica, J.F. and L.L. Levenson, Bulk-to-surface precipitation and surface diffusion of carbon on polycrystalline nickel 59 (1976) 447
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Mróz, S., LEED studies of thermal vibrations of atoms on the (111) nickel surface by the alternating current method 51 (1975) 365
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Muller, R.H., Present status of automatic ellipsometers 56 (1976) 19
Muller, R.H. and C.G. Smith, Ellipsometry of mass-transport boundary layers 56 (1976) 440
Muscat, J.P., Response function for a finite step potential model 58 (1976) 557
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Nagaev, E.L. and G.L. Lazarew, On the mechanism of chemisorption on magnetic semiconductors 54 (1976) 101
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Nakamura, K., Hot electrons in Si inversion layer 58 (1976) 48
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Nason, D. and W.A. Tiller, Orientation dependence of the solid/liquid interfacial free energy in binary systems 57 (1976) 406
Nelson, G.C., Determination of the surface versus bulk composition of silver–gold alloys by low energy ion scattering spectroscopy 59 (1976) 310
Netzer, F.P. and J.A.D. Matthew, Low energy electron spectroscopy of Pt(100) and Pt(100)/CO 51 (1975) 352
Netzer, F.P. and C. Kneringer, The adsorption of hydrogen and the reaction of hydrogen with oxygen on Pt(100) 51 (1975) 526
Netzer, F.P. and M. Prutton, Charge trapping in NiO surfaces during LEED observations 52 (1975) 505
Netzer, F.P., Adsorption of cyanogen on Pt(100) 52 (1975) 709
Neuenfeldt, G., see Göpel 55 (1976) 362
Neugebauer, T., K. von Kiltzing, G. Landwehr and G. Dorda, Quantum oscillations in (110) and (111) n-channel MOSFET's (extended abstract) 58 (1976) 261
Nguyen, T.T.A., see Michel 54 (1976) 509
Nguyen, T.T.A., S. Michel and R. Cinti, Mean stay times of indium adatoms on (111) silicon surfaces 54 (1976) 679
Nickerson, W., see Fromm 57 (1976) 775
Nicolaou, N. and A. Modinos, Band-structure effects in field-emission energy distributions in tungsten (abstract only) 53 (1975) 443
Nicolaou, N. and A. Modinos, Effect of surface potential on field-emission energy distributions and on the surface density of states 60 (1976) 527
Niehus, H., see Engel 52 (1975) 237
Nieuwenhuys, B.E., see Hagen 57 (1976) 632
Nieuwenhuys, B.E., D.J. Hagen, G. Rovida and G.A. Somorjai, LEED, AES and thermal desorption studies of chemisorbed hydrogen and hydrocarbons (C_2H_2, C_2H_4, C_6H_6, C_6H_{12}) on the (111) and stepped [6(111) × (100)] iridium crystal surfaces; comparison with platinum 59 (1976) 155
Nieuwenhuys, B.E., Influence of the surface structure on the adsorption of hydrogen on platinum, as studied by field emission probe-hole microscopy 59 (1976) 430
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Nikolova, E., see Simov 59 (1976) 115
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Nishikawa, O. and A.R. Saadat, Field emission and field ion microscope study of Ga, In and Sn on W: structure, work function, diffusion and binding energy 60 (1976) 301
Norris, H., see Matheson 56 (1976) 196
Nuttall, J.D., see Gallon 53 (1975) 698
Nyberg, C., The reaction of oxygen with Ti, Cr, Fe and Ni studied by ap-

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Poelsema, B., L.K. Verhey and A.L. Boers, Study of low energy noble gas ion reflection from monocrystalline surfaces; influence of thermal vibrations of the surface atoms. I. Computer simulation of energy and spatial distributions 55 (1976) 445
Poelsema, B., L.K. Verhey and A.L. Boers, Study of low energy noble gas ion reflection from monocrystalline surfaces; influence of thermal vibrations of the surface atoms. II. Calculational evaluation of the sensitivity for model parameters and possibilities for estimation 60 (1976) 485
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Roux, H., A. Piquet, R. Uzan et M. Drechsler, Une détermination du coefficient d'autodiffusion de surface en présence d'une couche d'adsorption à l'aide de pointes à émission de champ (nickel sur tungstène) 59 (1976) 97
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Schulte, F.K., A theory of thin metal films: electron density, potentials and work function 55 (1976) 427
Schultze, J.W. and D. Dickertmann, Potentiodynamic desorption spectra of metallic monolayers of Cu, Bi, Pb, Tl, and Sb adsorbed at (111), (100), and (110) planes of gold electrodes 54 (1976) 489
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Senzaki, K., K. Kuriyama and K. Kawasaki, Surface structure of titanium observed by field emission microscope 55 (1976) 697
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Singh-Boparai, S.P., M. Bowker and D.A. King, Crystallographic anisotropy in chemisorption: nitrogen on tungsten single crystal planes 53 (1975) 55
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Sullivan, T.E., P.H. Cutler and A.A. Lucas, Thermal and field emission effects of laser radiation on metal whisker diodes: application to infra red detection devices 54 (1976) 561
Summers, G.G. and H.N. Southworth, The effect of temperature and electrostatic field on tungsten and iridium field-ion emitters 53 (1975) 583
Sundaram, V.S. and P. Wynblatt, A Monte Carlo study of surface segregation in alloys 52 (1975) 569
Sundaram, V.S. and W.D. Robertson, Temperature dependence of specular and non-specular LEED beams from Cu_3Au 55 (1976) 324
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Taylor, R.N., C.A. Colmenares, R.L. Smith and G.A. Somorjai, The thorium(100) crystal face; a study of its cleaning, surface structure, and interaction with oxygen and carbon monoxide 54 (1976) 317
Teisseyre, Y., R. Coelho and R. Haug, Photo-stimulated field emission of barium coated tungsten 52 (1975) 120
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Trilling, L. and A. Hurkmans, The scattering of ions from a clean solid surface in the 1 to 10 eV range 59 (1976) 361
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P.C.S. Hayfield, Ellipsometry as an aid in studying metallic corrosion problems 56 (1976) 488
P.H. Dawson, The oxidation of aluminum studied by SIMS at low energies 57 (1976) 229
G. Allié, E. Blanc and D. Dufayard, Angular distribution of the Auger emission from aluminum and nickel surfaces 57 (1976) 293
D. Aberdam, R. Baudoing, E. Blanc and C. Gaubert, Theory of angular dependence in electron emission from surfaces; application to Auger emission from several metal surfaces 57 (1976) 306
J.K. Grepstad, P.O. Gartland and B.J. Slagsvold, Anisotropic work function of clean and smooth low index faces of aluminium 57 (1976) 348
J. Ferrante and S.V. Pepper, Production of Ne Augar electrons by Ne^+ bombardment of Mg and Al surfaces 57 (1976) 420
D. Aberdam, R. Baudoing, C. Gaubert and E.G. McRae, A LEED data reduction method – description and application to the relaxation of aluminum (001) and (110) surfaces 57 (1976) 715
J. Pillon, D. Roptin and M. Cailler, Secondary electron emission from aluminium 57 (1976) 741
R. Pauling and J.A. Ramsey, On the high temperature limit Debye model in LEED 58 (1976) 575
J. Ferrante and S.V. Pepper, Production of Mg and Al Auger electrons by noble gas ion bombardment of Mg and Al surfaces 58 (1976) 613
I. Lundström and T. DiStefano, Hydrogen induced interfacial polarization at Pd–SiO_2 interfaces 59 (1976) 23
J.T. Grant, M.P. Hooker, R.W. Springer and T.W. Haas, The application of tailored modulation technique to depth profiling with Auger electron spectroscopy 60 (1976) 1
R.J. Stein, Electron transmission measurements of electron mean free path in supported thin films from 1–5 keV 60 (1976) 436

Aluminium oxide

V.K. Agarwala and T. Fort, Jr., Nature of the stable oxide layer formed on an aluminum surface by work function measurements 54 (1976) 60
J.T. Grant, M.P. Hooker, R.W. Springer and T.W. Haas, The application of

tailored modulation techniques to depth profiling with Auger electron spectroscopy 60 (1976) 1

Ammonia

N.A. Surplice and W. Brearley, The adsorption of carbon monoxide, ammonia, and wet air on gold 52 (1975) 62
D.G. Löffler and L.D. Schmidt, Kinetics of NH_3 decomposition on single crystal planes of Pt 59 (1976) 195
K. Kunimori, T. Kawai, T. Kondow, T. Onishi and K. Tamaru, High resolution Auger electron spectroscopic study of nitrogen species adsorbed on a Pd surface; hydrogenation and dehydrogenation of NH_x adsorbed on a Pd surface 59 (1976) 302

Antimony

V. Anishchik, L.M. Falicov and F. Yndurain, Electronic surface properties of group V semimetals 57 (1976) 375

Appearance potential spectroscopy

J.T. Grant, M.P. Hooker and T.W. Haas, Appearance potential spectroscopy: relative signal strengths from 3d transition metals 51 (1975) 433
C. Nyberg, The reaction of oxygen with Ti, Cr, Fe and Ni studied by appearance potential spectroscopy 52 (1975) 1
S. Andersson and C. Nyberg, Soft X-ray appearance potential spectroscopy of C, N, O, and S chemisorbed on some 3d transition metals 52 (1975) 489
C. Webb and P.M. Williams, Appearance potential spectroscopy of layer materials 53 (1975) 110
K. Wandelt and G. Ertl, Electron spectroscopic studies of the oxidation of Fe/Ni alloys 55 (1976) 403

Arsenic

M.K. Bahl and R.I. Watson, Evidence for shakeup satellites due to surface contamination in arsenic metal and its compounds 54 (1976) 540
V. Anishchik, L.M. Falicow and F. Yndurain, Electronic surface properties of group V semimetals 57 (1976) 375
R.S. Lemons and G.M. Rosenblatt, Thermal accommodation coefficients by high speed vibration of solid samples. III. Gaseous As_4 on arsenic (111) surfaces 59 (1976) 293

Atom scattering

J.A. Meyers and D.R. Frankl, Selective adsorption of ^4He on clean LiF(001) surfaces 51 (1975) 61
M. Lagos and L. Birstein, Inelastic scattering of atoms by solid surfaces 51 (1975) 469
P. Jewsbury, On the interpretation of rainbow scattering in gas atom/scattering collisions 52 (1975) 325
M. Lagos and L. Birstein, Multiphonon atomic scattering by solid surfaces 52 (1975) 391

Atom–surface interaction potential

A. Tsuchida, The (0,0) Fourier component of the interaction potential of He/LiF(001) 52 (1975) 685
A. Hurkmans, E.G. Overbosch, D.R. Olander and J. Los, The trapping of potassium atoms by a polycrystalline tungsten surface as a function of energy and angle of incidence 54 (1976) 154
H. Chow and H.D. Thompson. Diffraction and selective adsorption in the corrugated hard wall model 54 (1976) 269
U. Garibaldi, A.C. Levi, R. Spadacini and G.E. Tommei, Quantum theory of molecule–surface scattering: rotational transitions 55 (1976) 40
G. Boato, P. Cantini and L. Mattera, A study of the (001) LiF surface at 80 K by means of diffractive scattering of He and Ne atoms at thermal energies 55 (1976) 141
D.R. Dion and J.D. Doll, Semiclassical theory of atom/solid surface collisions: solution of Steele's model 58 (1976) 415
H. Chow and E.D. Thompson, Bound state resonances in atom–solid scattering 59 (1976) 225
C. Chiroli and A.C. Levi, Quantum theory of atom–surface scattering: exact solutions and evaluation of approximations 59 (1976) 325
M.P. Liva and D.R. Frankl, Effects of selective adsorption on diffracted beam intensities for ^{4}He scattering from NaF 59 (1976) 643
F.O. Goodman, Application of a one-dimensional classical model of atom–oscillator scattering to atom–surface accommodation coefficient theory 60 (1976) 45
N. Garcia, J. Ibánez, J. Solana and N. Cabrera, Analysis of the methods proposed for computing the scattering of atoms from a hard currugated surface model of He/LiF(001) 60 (1976) 385

Atom–surface interaction potential

H. Chow and H.D. Thompson. Diffraction and selective adsorption in the corrugated hard wall model 54 (1976) 269
U. Garibaldi, A.C. Levi, R. Spadacini and G.E. Tommei, Quantum theory of molecule–surface scattering: rotational transitions 55 (1976) 40
G. Boato, P. Cantini and L. Mattera, A study of the (001)LiF surface at 80 K by means of diffractive scattering of He and Ne atoms at thermal energies 55 (1976) 141

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Auger electron spectroscopy (AES)

R.H. Williams and I.T. McGovern, Surface characterization of indium phosphide 51 (1975) 14
K. Jacobi, Surface states on phosphorus- and gallium-rich GaP($\bar{1}\bar{1}\bar{1}$) surfaces in electron energy-loss spectroscopy and photoemission 51 (1975) 29
L.J. Brillson, Observation of extrinsic surface states on (11$\bar{2}$0)Cds 51 (1975) 45
E.N. Sickafus and D.M. Holloway, Specimen position effects on energy shifts and signal intensity in a single-stage cylindrical-mirror analyzer 51 (1975) 131
H.P. Bonzel and T.E. Fischer, An UV photoemission study of NO and CO adsorption on Pt(100) and Ru(10$\bar{1}$0) surfaces 51 (1975) 213
J.S. Solomon and W.L. Baun, Molecular orbital effects on the Ti LMV

Auger spectra of TiO and TiO_2 51 (1975) 228
L. McDonnell, D.P. Woodruff and B.W. Holland, Angular dependence of Auger electron emission from Cu(111) and (100) surfaces 51 (1975) 249
G. Rovida and F. Pratesi, Chlorine monolayers on the low-index faces of silver 51 (1975) 270
J.T. Grant, M.P. Hooker and T.W. Haas, Spectrum subtraction techniques in Auger electron spectroscopy 51 (1975) 318
M.P. Hooker and J.T. Grant, Some factors affecting depth profiling measurements using Auger electron spectroscopy 51 (1975) 328
F. Pons, J. Le Héricy and J.P. Langeron, Comments on "AES studies of surface composition of Ag–Cu alloys" by P. Braun and W. Färber, and on "Quantitative Auger analysis of copper–nickel alloy surfaces after argon ion bombardment" by H. Shimizu, M. Ono and K. Nakayama 51 (1975) 336
P. Braun and W. Färber, Reply to Comments on "AES studies of surface composition of Ag–Cu alloys" 51 (1975) 342
F.P. Netzer and J.A.D. Matthew, Low energy electron spectroscopy of Pt(100) and Pt(100)/CO 51 (1975) 352
C. Leygraf, G. Hultquist and S. Ekelund, A LEED/AES study of $Fe_{0.84}Cr_{0.16}$ (100) and (110) 51 (1975) 409
A.G. Elliot, The condensation of gold onto tantalum (100) single crystal surfaces: LEED, AES analysis 51 (1975) 489
F.P. Netzer and G. Kneringer, The adsorption of hydrogen and the reaction of hydrogen with oxygen on Pt(100) 51 (1975) 526
R.J. Madix and J.L. Falconer, Surface stabilized reaction intermediate: formic anhydride 51 (1975) 546
C. Benndorf, J. Kessler und F. Thieme, Zur Isomorphie und Reinheit von auf Cu(111)-Oberflächen aufgedampften Kupfer 51 (1975) 553
M.A. Chesters and G.A. Somorjai, The chemisorption of oxygen, water and selected hydrocarbons on the (111) and stepped gold surfaces 52 (1975) 21
B.J. Wood and H. Wise, Surface composition of Pd–Au and Pd–Ag catalysts by Auger electron spectroscopy 52 (1975) 151
J.M. McDavid and S.C. Fain, Jr., Segregation at Cu–Au alloy surfaces 52 (1975) 161
C.R. Helms, K.Y. Yu and W.E. Spicer, Further evidence for equilibrium surface segregation in the Cu–Ni alloys – CO and H_2 chemisorption 52 (1975) 217
A.P. Janssen, Electron stimulated desorption of sodium and measurement of surface diffusion on MgO{001} by Auger spectroscopy 52 (1975) 230
B.G. Baker and B.A. Sexton, Electron beam effects in Auger analysis of physisorbed xenon 52 (1975) 353
C.R. Brundle, The use of X-ray photoelectron and Auger spectroscopy to determine the surface composition of oxidised vanadium 52 (1975) 426
F.J. Szalkowski and G.A. Somorjai, Comments on "The use of X-ray photoelectron and Auger spectroscopy to determine the surface composition of oxidised vanadium" by C.R. Brundle 52 (1975) 431
G. Rovida and F. Pratesi, Chemisorption of oxygen on the silver (110) surface 52 (1975) 542
R.W. Revie, J. O'M. Bockris and B.G. Baker, The degraded passive film on iron – an application of Auger electron spectroscopy 52 (1975) 664
M. Ono, H. Shimizu and K. Nakayama, Reply to Comments on "Quantitative Auger analysis of copper–nickel alloy surfaces after argon ion bombardment" 52 (1975) 681
F.P. Netzer, Adsorption of cyanogen on Pt(100) 52 (1975) 709
J.C. Fuggle and D. Menzel, Coverage dependent shifts of XPS peaks during

chemisorption on metals 53 (1975) 21
M.P. Seah, Interface adsorption, embrittlement and fracture in metallurgy – a review 53 (1975) 168
H.J. Mathieu and D. Landolt, Quantitative Auger electron spectroscopy analysis of Ag–Pd and Ni–Pd alloys 53 (1975) 228
C.T.H. Stoddart, R.L. Moss and D. Pope, Determination of the surface composition of palladium–nickel alloy film catalysts using Auger electron spectroscopy 53 (1975) 241
C. Lea and M.P. Seah, Site competition in surface segregation 53 (1975) 272
J.J. McCarroll, Surface physics and catalysis 53 (1975) 297
J.M. Wilson, LEED and AES study of the interaction of H_2S and Mo(100) 53 (1975) 330
W. Heiland, F. Iberl, E. Taglauer and D. Menzel, Oxygen adsorption on (110) silver 53 (1975) 383
Y. Margoninsky, D. Segal and R.E. Kirby, The interference of an electron beam with the surface reaction between oxygen and germanium 53 (1975) 488
D.P. Woodruff, Surface structure from angular dependence of Auger electron emission 53 (1975) 538
M. Baines, A. Howie and S.K. Andersen, Crystalline effects in backscattering and Auger production 53 (1975) 546
P. Staib, Highly sensitive Auger electron spectroscopy (abstract only) 53 (1975) 582
M. Gettings and J.P. Coad, A preliminary study of pure metal surfaces using Auger electron spectroscopy (AES), X-ray photoelectron spectroscopy (XPS) and secondary ion mass spectroscopy (SIMS) 53 (1975) 636
C. Argile and G.E. Rhead, Calibration in Auger electron spectroscopy by means of coadsorption 53 (1975) 659
E. Legrand-Bonnyns and A. Ponslet, Pre-oxidation structures at 650°C on Cu(100), (210) and (841) surfaces studied by RHEED and microscopy 53 (1975) 675
M. Salmerón, A.M. Baró and J.M. Rojo, Interatomic Auger processes and the density of states 53 (1975) 689
T.E. Gallon and J.D. Nuttall, Solid state broadening in Auger spectra 53 (1975) 698
J.A.D. Matthew and Y. Komninos, Transition for interatomic Auger processes 53 (1975) 716
Y. Shapira, S.M. Cox and D. Lichtman, Chemisorption, photodesorption and conductivity measurements on ZnO surfaces 54 (1976) 43
P.M. Hall and J.M. Morabito, A formalism for extracting diffusion coefficients from concentration profiles 54 (1976) 79
J.G. McCarty and R.J. Madix, Formic acid desorption from graphitized Ni(110) 54 (1976) 210
T.N. Taylor, C.A. Colmenares, R.L. Smith and G.A. Somorjai, The thorium (100) crystal face; a study of its cleaning, surface structure, and interaction with oxygen and carbon monoxide 54 (1976) 317
H.D. Shih, K.O. Legg and F. Jona, Interfacial and plasmon-decay peaks in the Auger spectra of titanium and iron 54 (1976) 355
P.H. Holloway, Chemical shifts in Auger electron spectra from silicon in silicon nitride 54 (1976) 506
R. Ducros, G. Piquard, B. Weber et A. Cassuto, Spectres Auger du carbone; carbures de tantale et adsorption d'éthylène et de monoxyde de carbone sur tantale et rhénium polycristallin 54 (1976) 513
K. Kunimori, T. Kawai, T. Kondow, T. Onishi and K. Tamaru, Chemical effects of the nitrogen K-LL Auger spectra of chemisorbed N_2 on Fe and Mo surfaces 54 (1976) 525
E. Gillet, J.C. Chiarena et M. Gillet, Etude par spectrométrie Auger et par

spectrométrie de masse de la chimisorption de l'oxyde de carbone sur le molybdène polycristallin 54 (1976) 601
G. McElhiney, H. Papp and J. Pritchard, The adsorption of Xe and CO on Ag(111) 54 (1976) 617
L. Viel, C. Benazeth et N. Benazeth, Spectres Auger sous bombardement d'ions Ar^+ de 60 keV de quelques éléments purs et de composés binaires 54 (1976) 635
H.M. Kramer and J. Suzanne, Adsorption of krypton on the basal plane of graphite: LEED and Auger measurements 54 (1976) 659
A.P. Janssen and R.C. Schoonmaker, An Auger and reflection electron diffraction investigation of oxygen and hydrogen adsorption on strontium surfaces 55 (1976) 109
E. Gillet, J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
L. Peralta, Y. Berthier and J. Oudar, Adsorption of sulphur on the (110) face of molybdenum 55 (1976) 199
S.H. Overbury and G.A. Somorjai, The surface composition of the silver–gold system by Auger electron spectroscopy 55 (1976) 209
R. Ducros and R.P. Merrill, The interaction of oxygen with Pt(110) 55 (1976) 227
P.S. Ho and J.E. Lewis, Deconvolution method for composition profiling by Auger sputtering technique 55 (1976) 335
D.M. Collins, J.B. Lee and W.E. Spicer, A Photoemission and thermal desorption study of carbon monoxide and oxygen adsorbed on platinum 55 (1976) 389
K. Wandelt and G. Ertl, Electron spectroscopic studies of the oxidation of Fe/Ni alloys 55 (1976) 403
T. Smith, Auger electron spectroscopy and ion sputter profiles of oxides on aluminum 55 (1976) 601
K. Horn and J. Pritchard, Infrared spectrum of CO chemisorbed on Cu(100) 55 (1976) 701
B.J. Hopkins and G.D. Watts, An Auger spectroscopic study of the coadsorption of O_2 + CO, and O_2 + CO_2 on a W(111) surface 55 (1976) 729
M.P. Hooker and J.T. Grant, Auger electron spectroscopy studies of CO on Ni spectral line shape and quantitative aspects 55 (1976) 741
S. Thomas, AES-ion sputtering analysis and the surface composition of TiO_2 55 (1976) 754
J.R. Adams, Complex refractive index and phosphorus concentration profiles in P^+_{31} ion implanted silicon by ellipsometry and Auger electron spectroscopy 56 (1976) 307
J.R. Adams and D.K. Kramer, A study of the oxidation of tantalum nitride by ellipsometry and Auger electron spectroscopy 56 (1976) 482
G. Gafner and R. Feder, A low-energy electron diffraction study of Fe(110). I. Experimental 57 (1976) 37
A.J. van Bommel and J.E. Crombeen, LEED, Auger electron spectroscopy (AES) and photoemission studies of the adsorption of cesium on the epitaxially grown GaAs(110) surface 57 (1976) 109
B.J. Hopkins, A.R. Jones and R.I. Winton, An AES, LEED and work function study of CO_2 adsorption on W(100) 57 (1976) 226
G. Allié, E. Blanc and D. Dufayard, Angular distribution of the Auger emission from aluminum and nickel surfaces 57 (1976) 293
D. Aberdam, R. Baudoing, E. Blanc and C. Gaubert, Theory of angular dependence in electron emission from surfaces; application to Auger emission from several metal surfaces 57 (1976) 306
J.K. Grepstad, P.O. Gartland and B.J. Slagsvold, Anisotropic work function of clean and smooth low index faces of aluminium 57 (1976) 348

C. Pariset et J.P. Chauvineau, L'adsorption du bismuth sur des films minces d'or etudiée par variation de résistance électrique 57 (1976) 363
P.S. Ho, J.E. Lewis, H.S. Wildman and J.K. Howard, Auger study of preferred sputtering on binary alloy surfaces 57 (1976) 393
M.E. Bridge, R.A. Marbrow and R.M. Lambert, Adsorption of cyanogen and hydrogen cyanide on Pt(110) and Ag(110) 57 (1976) 415
J. Ferrante and S.V. Pepper, Production of Ne Auger electrons by Ne^+ bombardment of Mg and Al surfaces 57 (1976) 420
W.G. Dorfeld, J.B. Hudson and R. Zurh, The interaction of an O_2 molecular beam with an Fe(110) surface 57 (1976) 460
P.D. Reed and R.M. Lambert, Surface crystallography, adsorbate structure, adsorption kinetics and surface reactivity – carbon suboxide (C_3O_2) on Pt(110) 57 (1976) 485
C.F. Brucker and T.N. Rhodin, Oxygen chemisorption and reaction on α-Fe(100) using photoemission and low-energy electron diffraction 57 (1976) 523
K. Jacobi, G. Steinert and W. Ranke, Iodine etching of the GaAs($\bar{1}\bar{1}\bar{1}$)As surface studied by LEED, AES and mass spectroscopy 57 (1976) 571
H.A. Engelhardt and D. Menzel, Adsorption of oxygen on silver single crystal surfaces 57 (1976) 591
C.M. Comrie, W.H. Weinberg and R.M. Lambert, The adsorption of nitric oxide on Pt(111) and Pt(110) surfaces 57 (1976) 619
D.I. Hagen, B.E. Nieuwenhuys, G. Rovida and G.A. Somorjai, Low-energy electron diffraction, Auger electron spectroscopy and thermal desorption studies of chemisorbed CO and O_2 on the (111) and stepped [6(111) × (100)] iridium surfaces 57 (1976) 632
J. Pillon, D. Roptin and M. Cailler, Secondary electron emission from aluminium 57 (1976) 741
L.C. Isett and J.M. Blakely, Segregation isosteres for carbon at the (100) surface of nickel 58 (1976) 397
L.J. Brillson and G.P. Ceasar, X-ray photionization cross sections for quantitative analysis 58 (1976) 457
E. Bauer, H. Poppa and Y. Viswanath, Adsorption of oxygen on W(100): adsorption kinetics and structure 58 (1976) 517
J.B. Theeten and F. Hottier, On the role of chlorine in the vapour phase epitaxy of (100)GaAs as evidenced by LEED and RHEED 58 (1976) 583
J. Ferrante and S.V. Pepper, Production of Mg and Al Auger electrons by noble gas ion bombardment of Mg and Al surfaces 58 (1976) 613
B. Carriére and J.P. Deville, Does the Auger peak of oxygen bring information in metal oxidation studies? 58 (1976) 618
P.D. Reed, C.M. Comrie and R.M. Lambert, Chemisorption, surface structural chemistry, and electron impact properties of carbon monoxide on Ru(101) 59 (1976) 33
M.A. Chesters, B.J. Hopkins and R.I. Winton, Auger and electron energy loss spectra of adsorbed species: α and β states of carbon monoxide and nitrogen on W(100) 59 (1976) 46
R. Bouwman, L.H. Toneman, M.A.M. Boersma and R.A. van Santen, Surface enrichment in Ag–Au alloys 59 (1976) 72
B.E. Nieuwenhuys, D.J. Hagen, G. Rovida and G.A. Somorjai, LEED, AES and thermal desorption studies of chemisorbed hydrogen and hydrocarbons (C_2H_2, C_2H_4, C_6H_6; C_6H_{12}) on the (111) and stepped [6(111) × (100)] iridium crystal surfaces; comparison with platinum 59 (1976) 155
M. Auboiroux, D. Marchand, P. Tougne, A.P. Legrand and J.C. Thuillier, Non-symmetrical ($1\bar{2}10$) planes of tellurium correlated to the non-symmetrical

epitaxy of selenium deposited on these faces 59 (1976) 218
Y. Viswanath, C. Sanders and L.D. Schmidt, Adsorbate densities on (100)W 59 (1976) 297
K. Kunimori, T. Kawai, T. Kondow, T. Onishi and K. Tamaru, High resolution Auger electron spectroscopic study of nitrogen species adsorbed on a Pd surface; hydrogenation and dehydrogenation of NH_x adsorbed on a Pd surface 59 (1976) 302
J.M. Wilson, Growth of sulphide films on Mo(111) 59 (1976) 315
J.F. Mojica and L.L. Levenson, Bulk-to-surface precipitation and surface diffusion of carbon on polycrystalline nickel 59 (1976) 447
C. Guillot, R. Riwan and J. Lecante, Dissociation of CO on Mo(100) 59 (1976) 581
A. Glachant, J.P. Coulomb and J.P. Biberian, AES and LEED studies of xenon adsorption on (100)NaCl 59 (1976) 619
J.T. Grant, M.P. Hooker, R.W. Springer and T.W. Haas, The application of tailored modulation techniques to depth profiling with Auger electron spectroscopy 60 (1976) 1
J.W. Gadzuk, Angle resolved Auger surface spectroscopy 60 (1976) 76
R.W. McCabe and L.D. Schmidt, Adsorption of H_2 and CO on clean and oxidized (110)Pt 60 (1976) 85
J. Supille et A. Cassuto, Interaction de l'oxygène aux basses pressions avec la solution solide niobium–oxygène à haute température
I. Equilibre de segrégation–chemisorption 60 (1976) 177
W. Losch and A.J. Monhemius, An AES study of a copper–iron sulphide mineral 60 (1976) 196
L.Y.L. Shen, Energy loss spectra, Auger spectra and high energy electron diffraction of A-15 superconductors 60 (1976) 239
G. McElhiney and J. Pritchard, The adsorption of Xe and CO on Au(100) 60 (1976) 397
H.D. Shih, F. Jona, D.W. Jepsen and P.M. Marcus, Atomic underlayer formation during the reaction of Ti{0001} with nitrogen 60 (1976) 445
G.L. Price, B.A. Sexton and B.G. Baker, The chemisorption of nitric oxide on (110) nickel studied by LEED, AES and thermal desorption 60 (1976) 506

Band structures

D.R. Penn, Measurement of the surface density of states by field ionization 52 (1975) 270
J.E. Rowe, J.C. Tracy and S.B. Christman, Plasmon–interband coupling in gallium compounds 52 (1975) 277
C. Webb and P.M. Williams, Appearance potential spectroscopy of layer materials 53 (1975) 110
M.M. Traum and N.V. Smith, Repeated zones and Mahan cones in the angular dependence of photoemission 53 (1975) 121
J.W. Gadzuk, Angle resolved photoemission from chemisorbed layers: further theoretical considerations 53 (1975) 132
R.F. Willis and B. Feuerbacher, Angular-resolved secondary-electron-emission spectroscopy of clean and adsorbate covered tungsten single-crystal surfaces 53 (1975) 144
M.C. Desjonquères and F. Cyrot-Lackmann, Electronic surface states in cleaved transition metals 53 (1975) 429
N. Nicolaou and A. Modinos, Band-structure effects in field-emission energy distributions in tungsten (abstract only) 53 (1975) 443
M. Salmerón, A.M. Baró and J.M. Rojo, Interatomic Auger processes and the density of states 53 (1975) 689

J.C. Phillips and K.C. Pandey, Surface resonances in photoemission spectra of GaAs 54 (1976) 183
S.J. Gurman, Theory of surface states. II. The copper and tungsten (001) surfaces 55 (1976) 93
E.N. Foo and L.G. Johnson, Surface Green function for a semi-infinite unsymmetric sp-band monatomic chain 55 (1976) 189
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. I. Tight-binding calculations for adsorption periodic surfaces 55 (1976) 291
A. Bewick and J. Robinson, Optical studies of the electrode–electrolyte solution interphase using reflectance methods. II. The electroreflectance effect at a lead electrode 55 (1976) 349
S.K. Sen, R.P. Gupta and W.H. Chung, Observation of plasmons and density of states in stainless steel 55 (1976) 709
J.D. van Otterloo and J.G. de Groot, Relation between interface states and temperature behavior of the barrier height of silver contacts on clean cleaved n-type silicon 57 (1976) 93
D.K. Ferry, Optical and intervalley scattering in quantized inversion layers in semiconductors 57 (1976) 218
S.J. Gurman and J.B. Pendry, Ferromagnetic surface states of antiferromagnetic nickel sulphide 57 (1976) 241
J.M. Wilson, Energy loss spectroscopy of sulphide films on Mo(100) 57 (1976) 499
J.L. Morán-López, G. Kerker and K.H. Bennemann, The local electronic densities of states at the surface of disordered alloys 57 (1976) 540
J.B. Pendry, Theory of photoemission 57 (1976) 679
Y. Uemura, Theoretical considerations on quantization for carriers in MOS structures 58 (1976) 1
H. Ezawa, Inversion layer mobility with intersubband scattering 58 (1976) 25
E. Arnold, Conduction mechanisms in bandtails at the Si–SiO_2 interface 58 (1976) 60
T. Ando, Density-functional calculation of subband structure on semiconductor surfaces 58 (1976) 128
E. Bangert and G. Landwehr, Self-consistent calculations of electric subbands in p-type silicon inversion layers (extended abstract) 58 (1976) 138
B. Vinter and F. Stern, Many-body effects in the first excited subband of the n-inversion layer of Si 58 (1976) 141
F. Stern, Screening and level broadening in inversion layers with random fixed charges 58 (1976) 162
F.J. Ohkawa and Y. Uemura, Valley splitting in an n-channel (100) inversion layer on p-type silicon 58 (1976) 254
F.J. DiSalvo, Charge density waves in layered compounds 58 (1976) 297
G.M. Guichar, C.A. Sébenne, G.A. Garry and M. Balkanski, Structure dependent oxidation of clean Si(111) surfaces 58 (1976) 374
J.A. Appelbaum, H.D. Hagstrum, D.R. Hamann and T. Sakurai, The effect of disordering on the spectral properties of partial monolayers of H on Si(111) 58 (1976) 479
D. Castiel, L. Dobrzynski and D. Spanjaard, Surface phonons and superstructures – an application: transition metals 59 (1976) 252
T.J. Chuang, C.R. Brundle and D.W. Rice, Interpretation of the X-ray photoemission spectra of cobalt oxide surfaces 59 (1976) 413
D. Castiel, Surface magnons and surface magnetic structures; an application to Eu chalcogenides 60 (1976) 24

F.W. de Wette and L. Kleinman, A new lattice sum for use in obtaining self-consistent warped-muffin-tin potentials in metal films 60 (1976) 255
D. Castiel, L. Dobrzynski and D. Spanjaard, Surface phonons and superstructures for adsorbate–substrate systems of rare gas solids 60 (1976) 269
N. Nicolaou and A. Modinos, Effect of surface potential on field-emission energy distributions and on the surface density of states 60 (1976) 527
T. Radoń and Ch. Kleint, Photo field-emission spectroscopy of optical transitions in the band structure of tungsten 60 (1976) 540

Barium

Y. Teisseyre, R. Coelho and R. Haug, Photo-stimulated field emission of barium-coated tungsten 52 (1975) 120
G.R. Floyd and R.H. Prince, Electron stimulated desorption of fluorine and barium from tungsten 59 (1976) 631

Biological systems

A. Rothen, Immunologic reactions carried out a liquid–solid interface 56 (1976) 109
S.M. Ma, D.L. Coleman and J.D. Andrade, Ellipsometry studies of albumin films on tantalum oxide and SiO_2 56 (1976) 117
R.M.A. Azzam, Use of a light beam to probe the cell surface in vitro 56 (1976) 126
D. den Engelsen, Optical anisotropy in ordered systems of lipids 56 (1976) 272

Biotite

M.J. Tricker and A.G. Freeman, Application of ^{57}Fe conversion electron Mössbauer spectroscopy to the study of single crystal specimens 51 (1975) 549

Bismuth

C. Pariset et J.P. Chauvineau, L'adsorption du bismuth sur des films minces d'or etudiée par variation de résistance êlectrique 57 (1976) 363
V. Anishchik, L.M. Falicov and F. Yndurain, Electronic surface properties of group V semimetals 57 (1976) 375

Boron nitride

S. Ross and I.D. Morrison, Computed adsorptive-energy distribution in the monolayer (CAEDMON) 52 (1975) 103
C. Webb and P.M. Williams, Appearance potential spectroscopy of layer materials 53 (1975) 110

Butene

D. Michel and V. Rössiger, Proton spin relaxation of butenes and butane in CaNaA zeolites 54 (1976) 463

Cadmium

T.E. Gallon and J.D. Nuttall, Solid state broadening in Auger spectra 53 (1975) 698

Cadmium sulphide

L.J. Brillson, Observation of extrinsic surface states on (11$\bar{2}$0)CdS 51 (1975) 45
J.R. Maltby, C.E. Reed and C.G. Scott, Analysis of the surface photovoltaic effect in photoconductors: CdS 51 (1975) 89
T.E. Gallon and J.D. Nuttall, Solid state broadening in Auger spectra 53 (1975) 698
S. Simov, M. Kalitzova, E. Nikolova and I. Baltov, Surface photovoltage spectroscopy study of CdS thin films 59 (1976) 115

Calcium

C. Lea and M.P. Seah, Site competition in surface segregation 53 (1975) 272

Carbon

M.A. Van Hove and S.Y. Tong, Possible Ni(001) surface expansion due to carbon chemisorption predicted by LEED calculations 52 (1975) 673
B. Lang, A LEED study of the deposition of carbon on platinum crystal surfaces 53 (1975) 317
R. Ducros, G. Piquard, B. Weber et A. Cassuto, Spectres Auger du carbone; carbures de tantale et adsorption d'éthylène et de monoxyde de carbone sur tantale et rhénium polycristallin 54 (1976) 513
M.K. Bahl and R.L. Watson, Evidence for shakeup satellites due to surface contamination in arsenic metal and its compounds 54 (1976) 540
S.M. Cox and D. Lichtman, Photodesorption from TiO_2 54 (1976) 675
D. Kashchiev, Kinetics of thin film coalescence due to crystallite surface migration 55 (1976) 477
R. Ducros, J.J. Ehrhardt, M. Alnot and A. Cassuto, Hydrogen and deuterium adsorption on polycrystalline rhenium surfaces; effect of carbon and oxygen coadsorption 55 (1976) 509
P.D. Reed and R.M. Lambert, Surface crystallography, adsorbate structure, adsorption kinetics and surface reactivity – carbon suboxide (C_3O_2) on Pt(110) 57 (1976) 485
L.C. Isett and J.M. Blakely, Segregation isosteres for carbon at the (100) surface of nickel 58 (1976) 397
D.E. Ellis, H. Adachi and F.W. Averill, Molecular cluster theory for chemisorption of first row atoms on nickel (100) surfaces 58 (1976) 497
J.F. Mojica and L.L. Levenson, Bulk-to-surface precipitation and surface diffusion of carbon on polycrystalline nickel 59 (1976) 447
D. Voreades, Secondary electron emission from thin carbon films 60 (1976) 325
J.G. Dash, J. Suzanne, H. Shechter and R.E. Peierls, Direct measurement of spreading pressures of films adsorbed on crystalline substrates 60 (1976) 411

Carbon dioxide

Y. Shapira, S.M. Cox and D. Lichtman, Chemisorption, photodesorption and conductivity measurements on ZnO surfaces 54 (1976) 43
J.G. McCarty and R.J. Madix, The adsorption of CO, H_2, CO_2 and H_2O on carburized and graphitized Ni(110) 54 (1976) 121
B.J. Hopkins and G.D. Watts, An Auger spectroscopic study of the coadsorption of O_2 + CO, and O_2 + CO_2 on a W(111) surface 55 (1976) 729

B.J. Hopkins, A.R. Jones and R.I. Winton, An AES, LEED and work function study of CO_2 adsorption on W(100) 57 (1976) 266

Carbon monoxide

H.P. Bonzel and T.E. Fischer, An UV photoemission study of NO and CO adsorption on Pt(100) and Ru(1010) surfaces 51 (1975) 213
F.P. Netzer and J.A.D. Matthews, Low energy electron spectroscopy of Pt(100) and Pt(100)/CO 51 (1975) 352
N.A. Surplice and W. Brearley, The adsorption of carbon monoxide, ammonia, and wet air on gold 52 (1975) 62
C.R. Helms, K.Y. Yu and W.E. Spicer, Further evidence for equilibrium surface segregation in the Cu–Ni alloys – CO and H_2 chemisorption 52 (1975) 217
H.P. Bonzel and J.J. Burton, CO oxidation on a Pt(110) surface: solution of a reaction model 52 (1975) 223
J.C. Fuggle, T.E. Madey, M. Steinkilberg and D. Menzel, Photoelectron spectroscopic studies of adsorption of CO and oxygen on Ru(001) 52 (1975) 521
E. Hulpke, Scattering of Li^+ from LEED characterized W(110) and Si(111) surfaces at energies between 2 and 20 eV 52 (1975) 615
C.R. Helms and R.J. Madix, Molecular beam relaxation spectrometry (MBRS) measurement of the desorption rate constant for CO on Ni(110) 52 (1975) 677
J. Pritchard, T. Catterick and R.K. Gupta, Infrared spectroscopy of chemisorbed carbon monoxide on copper 53 (1975) 1
J.C. Fuggle and D. Menzel, Coverage dependent shifts of XPS peaks during chemisorption on metals 53 (1975) 21
R.F. Willis and B. Feuerbacher, Angular-resolved secondary-electron-emission spectroscopy of clean and adsorbate covered tungsten single-crystal surfaces 53 (1975) 144
H. Papp and J. Pritchard, The adsorption of Xe and CO on a Cu(311) single crystal surface 53 (1975) 371
J.G. McCarty and R.J. Madix, The adsorption of CO, H_2, CO_2 and H_2O on carburized and graphitized Ni(110) 54 (1976) 121
T.E. Felter and P.J. Estrup, Model of β-CO on Mo(100): dissociative adsorption 54 (1976) 179
P.E. Gregory and W.E. Spicer, Photoemission study of the adsorption of O_2, CO and H_2 on GaAs(110) 54 (1976) 229
T.N. Taylor, C.A. Colmenares, R.L. Smith and G.A. Somorjai, The thorium (100) crystal face; a study of its cleaning, surface structure, and interaction with oxygen and carbon monoxide 54 (1976) 317
R. Ducros, G. Piquard, B. Weber et A. Cassuto, Spectres Auger du carbone; carbures de tantale et adsorption d'éthylène et de monoxyde de carbone sur tantale et rhénium polycristallin 54 (1976) 513
F.E. Domann, A radiotracer study of slow electron interaction with CO on polycrystalline Mo 54 (1976) 529
E. Gillet, J.C. Chiarena et M. Gillet, Etude par spectrométrie Auger et par spectrométrie de masse de la chimisorption de l'oxyde de carbone sur le molybdène polycristallin 54 (1976) 601
G. McElhiney, H. Papp and J. Pritchard, The adsorption of Xe and CO on Ag(111) 54 (1976) 617
S.M. Cox and D. Lichtman, Photodesorption from TiO_2 54 (1976) 675

E. Gillet, J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
R. Ducros and R.P. Merrill, The interaction of oxygen with Pt(110) 55 (1976) 227
D.M. Collins, J.B. Lee and W.E. Spicer, A photoemission and thermal desorption study of carbon monoxide and oxygen adsorbed on platinum 55 (1976) 389
K. Horn and J. Pritchard, Infrared spectrum of CO chemisorbed on Cu(100) 55 (1976) 701
B.J. Hopkins and G.D. Watts, An Auger spectroscopic study of the coadsorption of O_2 + CO, and O_2 + CO_2 on a W(111) surface 55 (1976) 729
R.E. Kirby, C.S. McKee and M.W. Roberts, Low temperature oxygen and activated nitrogen faceting of Ni(210) surfaces 55 (1976) 725
B.J. Hopkins and G.D. Watts, An Auger spectroscopic study of the coadsorption of O_2 + CO, and O_2 + CO_2 on a W(111) surface 55 (1976) 729
M.P. Hooker and J.T. Grant, Auger electron spectroscopy studies of CO of Ni spectral line shapes and quantitative aspects 55 (1976) 741
E. Miyazaki and I. Yasumori, An evaluation of heats of chemisorption of gases by an empirical method 55 (1976) 747
R.W. Stobie, B. Rao and M.J. Dignam, Infrared ellipsometry of adsorbed molecules: CO on evaporated Cu films 56 (1976) 334
G. Gafner and R. Feder, A low-energy electron diffraction study of Fe(110). I. Experimental 57 (1976) 37
R. Feder and G. Gafner, A low-energy electron diffraction study of Fe(110). II. Theory and comparison with the experiment 57 (1976) 45
J.E. Hulse and M. Moskovits, The interaction of CO with matrix-isolated Ni clusters: a model for CO chemisorbed on Ni 57 (1976) 125
K.Y. Yu, W.E. Spicer, I. Lindau, P. Pianetta and S.F. Lin, UPS studies of the bonding of H_2, O_2, CO, C_2H_4 and C_2H_2 on Fe and Cu 57 (1976) 157
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Adsorption of CO on clean and oxygen covered Ni(111) surfaces 57 (1976) 475
P.D. Reed and R.M. Lambert, Surface crystallography, adsorbate structure, adsorption kinetics and surface reactivity – carbon suboxide (C_3O_2) on Pt(110) 57 (1976) 485
T.E. Madey, J.J. Czyzewski and J.T. Yates, Jr., Ion angular distributions in electron stimulated desorption: oxygen and CO on W(111) 57 (1976) 580
D.I. Hagen, B.E. Nieuwenhuys, G. Rovida and G.A. Somorjai, Low-energy electron diffraction, Auger electron spectroscopy and thermal desorption studies of chemisorbed CO and O_2 on the (111) and stepped [6(111 × (100)] irradium surfaces 57 (1976) 632
M. Alnot, J. Fusy et A. Cassuto, Etude de l'interaction à température ordinaire du monoxyde de carbone gazeux avec de l'oxygène adsorbé sur platine polycristallin 57 (1976) 651
R.A. Shigeishi and D.A. King, Chemisorption of carbon monoxide on platinum {111}: reflection-absorption infrared spectroscopy 58 (1976) 379
M.-V. Mathieu et M. Primet, Inhibition par le cuivre de l'adsorption du monoxyde de carbone sur les alliages nickel–cuivre 58 (1976) 511
H. Schneck and G. Wedler, Oscillations of the galvanomagnetic properties of evaporated nickel films due to the adsorption of carbon monoxide 58 (1976) 597
P.D. Reed, C.M. Comrie and R.M. Lambert, Chemisorption, surface structural chemistry, and electron impact properties of carbon monoxide on Ru(101) 59 (1976) 33
M.A. Chesters, B.J. Hopkins and R.I. Winton, Auger and electron energy loss spectra of adsorbed species: α and β states of carbon monoxide and nitro-

gen on W(100) 59 (1976) 46
Y. Viswanath, G. Sanders and L.D. Schmidt, Adsorbate densities on (100)W 59 (1976) 297
C. Guillot, R. Riwan and J. Lecante, Dissociation of CO on Mo(100) 59 (1976) 581
G. Brodén, T.N. Rhodin, C. Brucker, R. Benbow and Z. Hurych, Synchrotron radiation study of chemisorptive bonding of CO on transition metals – polarization effect on Ir(100) 59 (1976) 593
G.R. Floyd and R.H. Prince, Electron stimulated desorption of fluorine and barium from tungsten 59 (1976) 631
R.W. McCabe and L.D. Schmidt, Adsorption of H_2 and CO on clean and oxidized (110)Pt 60 (1976) 85
T.V. Vorburger, D.R. Sandstrom and B.J. Waclawski, The displacement of hydrogen by carbon monoxide on the (100) face of tungsten: a photoemission and thermal desorption study 60 (1976) 211
G. McElhiney and J. Pritchard, The adsorption of Xe and CO on Au(100) 60 (1976) 397
T.N. Rhodin and G. Brodén, Preparation and chemisorptive properties of the clean normal and reconstructed surfaces of Ir(100) – role of multiplets 60 (1976) 466

Carboxylic acids

E.F.I. Roberts and D. Ross, Anomalous optical constants of thin films 56 (1976) 425
E.P. Honig and B.R. de Koning, Ellipsometric investigation of the skeletonization process of Langmuir–Blodgett films 56 (1976) 454

Catalysis

R.J. Madix and J.L. Falconer, Surface stabilized reaction intermediate: formic anhydride 51 (1975) 546
B.J. Wood and H. Wise, Surface composition of Pd–Au and Pd–Ag catalysis by Auger electron spectroscopy 52 (1975) 151
R.P.H. Gasser, G.V. Jackson and F.E. Rolling, The decomposition of methanol on tungsten 52 (1975) 199
H.P. Bonzel and J.J. Burton, CO oxidation on a Pt(110) surface: solution of a reaction model 52 (1975) 223
J.J. McCarroll, Surface physics and catalysis 53 (1975) 297
R.J. Madix, J.L. Falconer and A.M. Suszko, The autocatalytic decomposition of acetic acid on Ni(110) 54 (1976) 6
R.P.H. Gasser and D.E. Holt, The decomposition of methanol at low pressures by rhenium 55 (1976) 690
D.G. Löffler and L.D. Schmidt, Kinetics of NH_3 decomposition on single crystal planes of Pt 59 (1976) 195

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R.H. Paulson and T.N. Rhodin, Electronic spectra of adsorbed chalcogen atoms: surface cluster approach 55 (1976) 61

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R.C. Baetzold, Calculated model for metal cluster catalysis: H_2 dissociation 51 (1975) 1
S. Sinharoy and M. Henzler, Binding states of water vapor on cleaved germanium 51 (1975) 75

H. Lechert and H.W. Henneke, Untersuchungen der Protonenresonanz von adsorbiertem Wasser an Zeolithen des Faujasit-Typs mit verschiedenen Silicium-Aluminium-Verhältnissen 51 (1975) 189
H.P. Bonzel and T.E. Fischer, An UV photoemission study of NO and CO adsorption on Pt(100) and Ru(10$\bar{1}$0) surfaces 51 (1975) 213
G. Rovida and F. Pratesi, Chlorine monolayers on the low-index faces of silver 51 (1975) 270
E. Bohn and H. Moesta, Optical excitation of adsorbed nitrogen and its reactions with adsorbed hydrogen 51 (1975) 283
E.E. Mola, Theory of the binding energy and of photo-effects for N_2 on Fe 51 (1975) 290
B. Rakvin and J.N. Herak, Proton magnetic resonance parameters of hydroxyl groups on silicagel 51 (1975) 310
F.P. Netzer and J.A.D. Matthew, Low energy electron spectroscopy of Pt(100) and Pt(100)/CO 51 (1975) 352
R.A. Shigeishi, Adsorption of methane on a tungsten field emitter
R. Błaszczyszyn, M. Błaszczyszyn and R. Męclewski, Work function of the adsorption system of potassium on tungsten 51 (1975) 396
M. Domke, J.H. Block and M. Drechsler, The influence of electric fields on adsorbed gases: FEM of oxygen on tungsten single crystal 51 (1975) 451
F.P. Netzer and G. Kneringer, The adsorption of hydrogen and the reaction of hydrogen with oxygen on Pt(100) 51 (1975) 526
C.O. Steinbrüchel, On the interpretation of adsorption and desorption kinetics experiments 51 (1975) 539
R.J. Madix and J.L. Falconer, Surface stabilized reaction intermediate: formic anhydride 51 (1975) 546
C. Nyberg, The reaction of oxygen with Ti, Cr, Fe and Ni studied by appearance potential spectroscopy 52 (1975) 1
M. Wilf and M. Folman, Field electron emission study of nitrogen absorbed on individual tungsten planes 52 (1975) 10
M.A. Chesters and G.A. Somorjai, The chemisorption of oxygen, water and selected hydrocarbons on the (111) and stepped gold surfaces 52 (1975) 21
C.A. Papageorgopoulos and J.M. Chen, Coadsorption of cesium and oxygen on Ni(100). I. Cesium probing of Ni–O bonding 52 (1975) 40
C.A. Papageorgopoulos and J.M. Chen, Coadsorption and cesium and oxygen on Ni(100). II. Cesium enhanced chemisorption and oxidation 52 (1975) 53
N.A. Surplice and W. Brearley, The adsorption of carbon monoxide, ammonia, and wet air on gold 52 (1975) 62
M. Cini, Alkali atom chemisorption on small metal particles 52 (1975) 75
C.R. Helms, K.Y. Yu and W.E. Spicer, Further evidence for equilibrium surface segregation in the Cu–Ni alloys – CO and H_2 chemisorption 52 (1975) 217
H.P. Bonzel and J.J. Burton, CO oxidation on a Pt(110) surface: solution of a reaction model 52 (1975) 223
T. Engel, H. Niehus and E. Bauer, Adsorption of oxygen on W(110). I. The p(2 × 1) structure 52 (1975) 237
B. Weber, J.L. Philippart et A. Cassuto, Interactions du chlore sous basse pression avec le tantale à haute température 52 (1975) 311
R. Meclewski, Ch. Kleint and R. Blaszczyszyn, Correlation of field emission flicker noise and work function for tungsten single crystal planes with adsorbed potassium 52 (1975) 365
E. Fromm, Mechanism of chemisorption and interface penetration in reactive systems at low temperatures 52 (1975) 401

U. Bauder and E. Fromm, Adsorption of nitrogen and oxygen by vapour-deposited tantalum films 52 (1975) 415
R. Duš, Hydrogen adsorption and absorption on evaporated Nb films 52 (1975) 440
A.M. Bradshaw and F. Hoffmann, IR reflection–absorption spectroscopy of CO adsorbed on palladium 52 (1975) 456
R.P.H. Gasser and D.E. Holt, Simultaneous and sequential adsorption of deuterium and nitrous oxide by rhenium 52 (1975) 457
A. Cetronio, J.P. Jones and E.W. Roberts, A study of copper adsorption on (100) tungsten by high field microscopy 52 (1975) 473
S. Andersson and C. Nyberg, Soft X-ray appearance potential spectroscopy of C,N,O, and S chemisorbed on some 3d transition metals 52 (1975) 489
F.P. Netzer and M. Prutton, Charge trapping in NiO surfaces during LEED observations 52 (1975) 505
J.C. Fuggle, T.E. Madey, M. Steinkilberg and D. Menzel, Photoelectron spectroscopic studies of adsorption of CO and oxygen on Ru(001) 52 (1975) 521
G. Rovida and F. Pratesi, Chemisorption of oxygen on the silver (110) surface 52 (1975) 542
E. Hulpke, Scattering of Li^+ from LEED characterized W(110) and Si(111) surfaces at energies between 2 and 20 eV 52 (1975) 615
M.A. Van Hove and S.Y. Tong, Possible Ni(001) surface expansion due to carbon chemisorption predicted by LEED calculations 52 (1975) 673
C.R. Helms and R.J. Madix, Molecular beam relaxation spectrometry (MBRS) measurement of the desorption rate constant for CO on Ni(110) 52 (1975) 677
M.R. Shanabarger, Chemisorption kinetics of hydrogen on evaporated iron films 52 (1975) 689
P.R. Antoniewicz, On the surface-induced dipole moments of adsorbed molecules 52 (1975) 703
F.P. Netzer, Adsorption of cyanogen on Pt(100) 52 (1975) 709
B.J. Hopkins, G.D. Watts and A.R. Jones, The adsorption of oxygen on tungsten (100) – temperature effects 52 (1975) 715
J. Pritchard, T. Catterick and R.K. Gupta, Infrared spectroscopy of chemisorbed carbon monoxide on copper 53 (1975) 1
J.F. Fuggle and D. Menzel, Coverage dependent shifts of XPS peaks during chemisorption on metals 53 (1975) 21
S.P. Singh-Boparai, M. Bowker and D.A. King, Crystallographic anisotropy in chemisorption: nitrogen on tungsten single crystal planes 53 (1975) 55
J.W. Gadzuk, Angle resolved photoemission from chemisorbed layers: further theoretical considerations 53 (1975) 132
R.F. Willis and B. Feuerbacher, Angular-resolved secondary-electron-emission spectroscopy of clean and adsorbate covered tungsten single-crystal surfaces 53 (1975) 144
J.J. McCarroll, Surface physics and catalysis 53 (1975) 297
B. Lang, A LEED study of the deposition of carbon on platinum crystal surfaces 53 (1975) 317
J.M. Wilson, LEED and AES study of the interaction of H_2S and Mo(100) 53 (1975) 330
P.E.C. Franken and V. Ponec, Ethylene adsorption on thin films of Ni, Pd, Pt, Cu, Au and Al; work function measurements 53 (1975) 341
W. Heiland, F. Iberl, E. Taglauer and D. Menzel, Oxygen adsorption on (110) silver 53 (1975) 383
B. Kasemo and L. Wallden, Photon and electron emission during halogen adsorption on sodium 53 (1975) 393

H. Ibach, Relations between electronic properties of clean surfaces and activated adsorption 53 (1975) 444
J.E. Rowe, Anisotropic photoemission and chemisorption-bond geometry on Ge(111) and Si(111) surfaces 53 (1975) 461
P.M. Marcus, J.E. Demuth and D.W. Jepsen, Determination of the structure of ordered adsorbed layers by analysis of LEED spectra 53 (1975) 501
A. Salwen and J. Rundgren, The structure of the p(2 × 2) tellurium overlayer on the (001) surface of copper investigated by LEED 53 (1975) 523
C. Argile and G.E. Rhead, Calibration in Auger electron spectroscopy by means of coadsorption 53 (1975) 659
R.J. Madix, J.L. Falconer and A.M. Suszko, The autocatalytic decomposition of acetic acid on Ni(110) 54 (1976) 6
Y. Shapira, S.M. Cox and D. Lichtman, Chemisorption, photodesorption and conductivity measurements on ZnO surfaces 54 (1976) 43
E.L. Nagaev and G.L. Lazarew, On the mechanism of chemisorption on magnetic semiconductors 54 (1976) 101
J.G. McCarty and R.J. Madix, The adsorption of CO, H_2, CO_2 and H_2O on carburized and graphitized Ni(110) 54 (1976) 121
W. Ho, S.L. Cunningham and W.H. Weinberg, Single atom chemisorption on a bcc metal 54 (1976) 139
T.E. Felter and P.J. Estrup, Model of β-CO on Mo(100): dissociative adsorption 54 (1976) 179
H.D. Hagstrum, The determination of energy-level shifts which accompany chemisorption 54 (1976) 197
J.G. McCarty and R.J. Madix, Formic acid desorption from graphitized Ni(110) 54 (1976) 210
P.E. Gregory and W.E. Spicer, Photoemission study of the adsorption of O_2, CO and H_2 on GaAs(110) 54 (1976) 229
M. Van Hove, S.Y. Tong and N. Stoner, Perturbation calculations of the c(2 × 2) sodium overlayer structure on Al(001) 54 (1976) 259
T.N. Taylor, C.A. Colmenares, R.L. Smith and G.A. Somorjai, The thorium (100) crystal face; a study of its cleaning, surface structure, and interaction with oxygen and carbon monoxide 54 (1976) 317
H.D. Shih, K.O. Legg and F. Jona, Interfacial and plasmon-decay peaks in the Auger spectra of titanium and iron 54 (1976) 355
K. Christmann, G. Ertl and T. Pignet, Adsorption of hydrogen on a Pt(111) surface 54 (1976) 365
J. Estel, H. Hoinkes, H. Kaarmann, H. Nahr and H. Wilsch, On the problem of water adsorption on alkali halide cleavage planes, investigated by secondary ion mass spectroscopy 54 (1976) 393
B.A. Hutchins, T.N. Rhodin and J.E. Demuth, Surface crystallography of the c(2 × 2) sodium overlayer on Al(100) 54 (1976) 419
D. Michel and V. Rössiger, Proton spin relaxation of butenes and butane in CaNaA zeolites 54 (1976) 463
R.V. Bucur, V. Mecea and T.B. Flanagan, The kinetics of hydrogen (deuterium) sorption by thin palladium layers studied with a piezoelectric quartz crystal microbalance 54 (1976) 477
J.W. Schultze and D. Dickertmann, Potentiodynamic desorption spectra of metallic monolayers of Cu, Bi, Pb, Tl, and Sb adsorbed at (111), (100), and (110) planes of gold electrodes 54 (1976) 489
S. Michel, T.T.A. Nguyen and R. Cinti, Adsorption of indium on (100) and (110) silicon substrates 54 (1976) 509
R. Ducros, G. Piquard, B. Weber et A. Cassuto, Spectres Auger du carbone;

carbures de tantale et adsorption d'éthylène et de monoxyde de carbone sur tantale et rhénium polycristallin 54 (1976) 513
H.H. Brongersma and J.B. Theeten, The structure of oxygen adsorbed on Ni(001) as determined by ion scattering spectroscopy 54 (1976) 519
K. Kunimori, T. Kawai, T. Kondow, T. Onishi and K. Tamaru, Chemical effects of the nitrogen K-LL Auger spectra of chemisorbed N_2 on Fe and Mo surfaces 54 (1976) 525
F.E. Domann, A radiotracer study of slow electron interaction with CO on polycrystalline Mo 54 (1976) 529
P. Chiaradia and S. Nannarone, Optical properties of the clean and slowly oxidized surface of silicon 54 (1976) 547
J.Y. Caradec, J.L. Philippart, B. Weber et A. Cassuto, Etude par spectrométrie de masse en vision directe des interactions sous basse pression du pentachlorure de tantale avec le tantale à haute température 54 (1976) 593
E. Gillet, J.C. Chiarena et M. Gillet, Etude par spectrométrie Auger et par spectrométrie de mass de la chimisorption de l'oxyde de carbone sur le molybdène polycristallin 54 (1976) 601
W.F. Egelhoff, Jr., D.L. Perry and J.W. Linnett, The adsorption of mercury on tungsten (100) studied by ultra-violet photoelectron spectroscopy 54 (1976) 670
S.M. Cox and D. Lichtman, Photodesorption from TiO_2 54 (1976) 675
T.T.A. Nguyen, S. Michel and R. Cinti, Means stay times of indium adatoms on (111) silicon surfaces 54 (1976) 679
R.H. Paulson and T.N. Rhodin, Electronic spectra of adsorbed chalcogen atoms: surface cluster approach 55 (1976) 61
K.A. Mauritz and A.J. Hopfinger, Theory of the epitaxial crystallization of polymers. IV. Chain packing energetics of the initially deposited monolayer – application to the PE-NaCl system 55 (1976) 81
A.P. Janssen and R.C. Schoonmaker, An Auger and reflection electron diffraction investigation of oxygen and hydrogen adsorption on strontium surfaces 55 (1976) 109
E. Gillet, J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
L. Peralta, Y. Berthier and J. Oudar, Adsorption of sulphur on the (110) face of molybdenum 55 (1976) 199
R. Ducros and R.P. Merrill, The interaction of oxygen with Pt(110) 55 (1976) 227
K.F. Wojciechowski, Electronic properties of alkali submonolayers on a metal substrate 55 (1976) 246
J.P. Bibérian and M. Huber, A model of structures of monolayers adsorbed on (100) faces of metals; a comparative study of various systems in the high symmetry coincidence mesh hypothesis 55 (1976) 259
E.N. Foo and S.G. Davison, Green function theory of chemisorption on sp-hybrid crystals 55 (1976) 274
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. I. Tight-binding calculations for adsorption on periodic surfaces 55 (1976) 291
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. II. Cluster models for adsorption sites 55 (1976) 313
W. Göpel and G. Neuenfeldt, Debye temperatures and step arrays of ZnO($10\bar{1}0$) surface determined by LEED 55 (1976) 362
D.M. Collins, J.B. Lee and W.E. Spicer, A photoemission and thermal desorption study of carbon monoxide and oxygen adsorbed on plantinum 55 (1976) 389

R. Ducros, J.J. Ehrhardt, M. Alnot and A. Cassuto, Hydrogen and deuterium adsorption on polycrystalline rhenium surfaces; effect of carbon and oxygen coadsorption 55 (1976) 509
L.N. Surnev, Adsorption of sodium and its effect upon some electric properties of clean germanium (111) surfaces 55 (1976) 625
S. Evans, J. Pielaszek and J.M. Thomas, Oxidation of nickel studied by UV and X-ray photoelectron spectroscopy 55 (1976) 644
R.A. Powell and W.E. Spicer, Photoemission study of oxygen chemisorption on tin 55 (1976) 681
R.E. Kirby, C.S. McKee and M.W. Roberts, Low temperature oxygen and activated nitrogen faceting of Ni(210) surfaces 55 (1976) 725
B.J. Hopkins and G.D. Watts, An Auger spectroscopic study of the coadsorption of O_2 + CO, and O_2 + CO_2 on a W(111) surface 55 (1976) 729
M.P. Hooker and J.T. Grant, Auger electron spectroscopy studies of CO on Ni spectral line shapes and quantitative aspects 55 (1976) 741
E. Miyazaki and I. Yasumori, An evaluation of heats of chemisorption of gases by an empirical method 55 (1976) 747
F. Meyer, Ellipsometric studies of adsorption reactions on clean surfaces 56 (1976) 37
K. Kinosita and M. Yamamoto, Principal angle-of-incidence ellipsometry 56 (1976) 64
M.A.B. Gültepe, Some considerations on the determination of optical properties of adsorbed films 56 (1976) 76
R.W. Stobie, B. Rao and M.J. Dignam, Infrared ellipsometry of adsorbed molecules: CO on evaporated Cu films 56 (1976) 334
N.G. Krishnan, W.G. Delgass and W.D. Robertson, X-ray photoelectron spectroscopy of oxygen adsorption on clean Ni(100) surfaces 57 (1976) 1
I.P. Batra and C.R. Brundle, Cluster model calculation and photoemission studies of molecularly adsorbed NO and Ni 57 (1976) 12
G. Gafner and R. Feder. A low-energy electron diffraction study of Fe(110). I Experimental 57 (1976) 37
R. Feder and G. Gafner, A low-energy electron diffraction study of Fe(110). II. Theory and comparison with the experiment 57 (1976) 45
E.G. McRae and C.W. Caldwell, Elastic-scattering resonances observed in very low energy electron reflection at oxygenated Ni(100) surfaces 57 (1976) 63
E.G. McRae and C.W. Caldwell, Very low energy electron reflection at Cu(001) surfaces 57 (1976) 77
A.J. van Bommel and J.E. Crombeen, LEED, Auger electron spectroscopy (AES) and photoemission studies of the adsorption of cesium on the epitaxically grown GaAs(110) surface 57 (1976) 109
J.E. Hulse and M. Moskovits, The interaction of CO with matrix-isolated Ni clusters: a model for CO chemisorbed on Ni 57 (1976) 125
K.Y. Yu, W.E. Spicer, I. Lindau, P. Pianetta and S.F. Lin, UPS studies of the bonding of H_2, O_2, CO, C_2H_4 and C_2H_2 on Fe and Cu 57 (1976) 157
P.H. Dawson, The oxidation of aluminum studied by SIMS at low energies 57 (1976) 229
B.J. Hopkins, A.R. Jones and R.I. Winton, An AES, LEED and work functions study of CO_2 adsorption on W(100) 57 (1976) 266
G. Allié, E. Blanc and D. Dufayard, Angular distribution of the Auger emission from aluminum and nickel surfaces 57 (1976) 293
C. Pariset et J.P. Chauvineau, L'adsorption du bismuth sur des films minces d'or etudiée par variation de résistance électrique 57 (1976) 363
M.E. Bridge, R.A. Marbrow and R.M. Lambert, Adsorption of cyanogen and hydrogen cyanide on Pt(110) and Ag(110) 57 (1976) 415

O. Hunderi, Ellipsometric study of lithium hydroxide overlayers on lithium 57 (1976) 451
W.G. Dorfeld, J.B. Hudson and R. Zuhr, The interaction of an O_2 molecular beam with an Fe(110) surface 57 (1976) 460
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Adsorption of CO on clean and oxygen covered Ni(111) surfaces 57 (1976) 475
P.D. Reed and R.M. Lambert, Surface crystallography, adsorbate structure, adsorption kinetics and surface reactivity – carbon suboxide (C_3O_2) on Pt(110) 57 (1976) 485
J.M. Wilson, Energy loss spectroscopy of sulphide films on Mo(100) 57 (1976) 499
C.F. Brucker and T.N. Rhodin, Oxygen chemisorption and reaction on α-Fe-(100) using photoemission and low-energy electron diffraction 57 (1976) 523
K. Jacobi, G. Steinert and W. Ranke, Iodine etching of the GaAs($\bar{1}\bar{1}\bar{1}$)As surface studied by LEED, AES, and mass-spectroscopy 57 (1976) 571
T.E. Madey, J.J. Czyzewski and J.T. Yates, Jr., Ion angular distributions in electron stimulated desorption: oxygen and CO on W(111) 57 (1976) 580
H.A. Engelhardt and D. Menzel, Adsorption of oxygen on silver single crystal surfaces 57 (1976) 591
C.M. Comrie, W.H. Weinberg and R.M. Lambert, The adsorption of nitric oxide on Pt(111) and Pt(110) surfaces 57 (1976) 619
D.I. Hagen, B.E. Nieuwenhuys, G. Rovida and G.A. Somorjai, Low-energy electron diffraction, Auger electron spectroscopy and thermal desorption studies of chemisorbed CO and O_2 on the (111) and stepped [6(111) × (100)] iridium surfaces 57 (1976) 632
M. Alnot, J. Fusy et A. Cassuto, Etude de l'interaction à température ordinaire du monoxyde de carbone gazeux avec de l'oxygène adsorbé polycristallin 57 (1976) 651
J. Kärger, On the correlation between diffusion and self-diffusion processes of adsorbed molecules in a simple microkinetic model 57 (1976) 749
E. Miyazaki and I. Yasumori, Chemisorption of O_2 and NO molecules on transition d-metals 57 (1976) 755
E. Fromm, O. Mayer and W. Nickerson, Interrelation between thickness of oxygen and nitrogen chemisorption layers and thermochemical data 57 (1976) 775
E. Arnold, Conduction mechanisms in bandtails at the Si–SiO_2 interface 58 (1976) 60
A. Hartstein and A.B. Fowler, Oxide-charge-induced impurity band in silicon inversion layers (abstract only) 58 (1976) 71
M.E. Sjöstrand, T. Cole and P.J. Stiles, Low temperature saturation of the channel conductivity in silicon inversion layers 58 (1976) 72
S. Pollitt, M. Pepper and C.J. Adkins The Anderson transition in silicon inversion layers 58 (1976) 79
D.C. Licciardello and D.J. Thouless, University and transport in two-dimensional disordered systems (extended abstract) 58 (1976) 89
T. Cole, M.E. Sjöstrand and P.J. Stiles, Activated channel conductivity in silicon inversion layers at high temperatures 58 (1976) 91
S. Aymeloglu and J.N. Zemel, Field effect studies on n-channel (100) MOSFET's at 4.2 to 77 K 58 (1976) 98
D.C. Tsui and G. Kaminsky, Influence of uniaxial stress on quantum effects in Si inversion layers 58 (1976) 187
A.A. Lakhani and P.J. Stiles, Effect of substrate bias on the mobility and scattering time of electrons in Si inversion layers 58 (1976) 193
A.A. Lakhani, T.K. Lee and J.J. Quinn, Dependence on substrate bias of the effective mass and Dingle temperature of electrons in the surface inversion layer of silicon 58 (1976) 213

Th. Englert and G. Landwehr, Magnetic-transport properties of silicon inversion layers at low carrier densities 58 (1976) 217
R.R. Gerhardts, Cumulant approach to the two-dimensional magneto-conductivity problem 58 (1976) 227
K. Hess, Magnetoresistance of n-silicon inversion layers in the ohmic and in the hot-electron range 58 (1976) 235
S. Kawaji and J. Wakabayashi, Quantum galvanomagnetic properties of n-type inversion layers on Si(100) MOSFET 58 (1976) 238
F.J. DiSalvo, Charge density waves in layered compounds 58 (1976) 297
H. Fukuyama, Two-dimensional Wigner crystal in magnetic fields 58 (1976) 320
F. Stern, Recent progress in electronic properties of quasi-two-dimensional systems 58 (1976) 333
Y.W. Chung, W. Siekhaus and G.A. Somorjair, Studies of acetylene and oxygen adsorption on silicon surfaces by low-energy electron loss spectroscopy 58 (1976) 341
G.M. Guichar, C.A. Sébenne, G.A. Garry and M. Balkanski, Structure dependent oxidation of clean Si(111) surfaces 58 (1976) 374
R.A. Shigeishi and D.A. King, Chemisorption of carbon monoxide on platinum {111}: reflection–absorption infrared spectroscopy 58 (1976) 379
J.A. Appelbaum, H.D. Hagstrum, D.R. Hamann and T. Sakurai, The effect of disordering on the spectral properties of partial monolayers of H on Si(111) 58 (1976) 479
M.-V. Mathieu et M. Primet, Inhibition par le cuivre de l'adsorption du monoxyde de carbone sur les alliages nickel–cuivre 58 (1976) 511
E. Bauer, H. Poppa and Y. Viswanath, Adsorption of oxygen on W(100): adsorption kinetics and structure 58 (1976) 517
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Ultraviolet photoelectron spectra from hydrogen adsorbed on Ni(111) and Pd(111) surfaces 58 (1976) 578
L.E. Wachs and R.J. Madix, On the H_2-D_2 exchange on stepped platinum surfaces 58 (1976) 590
H. Schneck and G. Wedler, Oscillations of the galvanomagnetic properties of evaporated nickel films due to the adsorption of carbon monoxide 58 (1976) 597
B. Carrière and J.P. Deville, Does the Auger peak of oxygen bring information in metal oxidation studies? 58 (1976) 618
I. Lundström and T. DiStefano, Hydrogen induced interfacial polarization at Pd–SiO_2 interfaces 59 (1976) 23
P.D. Reed, C.M. Comrie and R.M. Lambert, Chemisorption, surface structural chemistry, and electron impact properties of carbon monoxide on Ru(101) 59 (1976) 33
M.A. Chesters, B.J. Hopkins and R.I. Winton, Auger and electron energy loss spectra of adsorbed species: α and β states of carbon monoxide and nitrogen on W(100) 59 (1976) 46
S.C. Dahlberg, Photovoltage studies of clean and oxygen covered gallium arsenide 59 (1976) 83
H. Roux, A. Piquet, R. Uzan et M. Drechsler, Une détermination du coefficient d'autodiffusion de surface en présence d'une couche d'adsorption à l'aide de pointes à émission de champ (nickel sur tungstène) 59 (1976) 97
R. Duš and W. Lisowski, Studies on the possibility of determination of surface area of palladium films by means of adsorption of hydrogen or oxygen and reciprocal titration of these gases 59 (1976) 141
B.E. Nieuwenhuys, D.J. Hagen, G. Rovida and G.A. Somorjai, LEED, AES and thermal desorption studies of chemisorbed hydrogen and hydrocarbons (C_2H_2, C_2H_4, C_6H_6, C_6H_{12}) on the (111) and stepped [6(111) ×

(100)] iridium crystal surfaces; comparison with platinum 59 (1976) 155
Y. Viswanath, G. Sanders and L.D. Schmidt, Adsorbate densities on (100)W 59 (1976) 297
J.M. Wilson, Growth of sulphide films on Mo(111) 59 (1976) 315
B.E. Nieuwenhuys, Influence of the surface structure on the adsorption of hydrogen on platinum, as studied by field emission probe-hole microscopy 59 (1976) 430
A. Hurkmans, E.G. Overbosch and J. Los, Trapping probabilities and desorption energies of alkali atoms on a clean and an oxygen covered tungsten (110) surface 59 (1976) 488
M. Blaszczyszyn, Work function of adsorption systems potassium on tantalum and on molybdenum 59 (1976) 533
C. Guillot, R. Riwan and J. Lecante, Dissociation of CO on Mo(100) 59 (1976) 581
G. Brodén, T.N. Rhodin, C. Brucker, R. Benbow and Z. Hurych, Synchrotron radiation study of chemisorptive bonding of CO on transition metals – polarization effect on Ir(100) 59 (1976) 593
G.R. Floyd and R.H. Prince, Electron stimulated desorption of fluorine and barium from tungsten 59 (1976) 631
C. Leung and R. Gomer, A low temperature precursor to chemisorbed oxygen on tungsten (110) 59 (1976) 638
G. Blaise, Similarities in photon and ion emissions induced by sputtering 60 (1976) 65
J.W. Gadzuk, Angle resolved Auger surface spectroscopy 60 (1976) 76
R.W. McCabe and L.D. Schmidt, Adsorption of H_2 and CO on clean and oxidized (110)Pt 60 (1976) 85
J.C. Cavalier and E. Chornet, Hydrogen–deuterium exchange on iron: kinetic anisotropies 60 (1976) 125
G.K.L. Cranstoun and D.R. Pyke, Field ion microscope observations of surface rearrangement and oxide formation at clean rhenium surfaces heated in oxygen 60 (1976) 157
J. Jupille et A. Cassuto, Interaction de l'oxygène aux basses pressions avec la solution solide niobium–oxygène à haute température I. Equilibre de segrégation–chemisorption 60 (1976) 177
T.V. Vorburger, D.R. Sandstrom and B.J. Waclawski, The displacement of hydrogen by carbon monoxide on the (100) face of tungsten: a photoemission and thermal desorption study 60 (1976) 211
C.R. Brundle, T.J. Chuang and D.W. Rice, X-ray photoemission study of the interaction of oxygen and air with clean cobalt surfaces 60 (1976) 285
O. Nishikawa and A.R. Saadat, Field emission and field ion microscope study of Ga, In and Sn on W: structure, work function, diffusion and binding energy 60 (1976) 301
K. Christmann and G. Ertl, Interaction of hydrogen with Pt(111): the role of atomic steps 60 (1976) 365
H.D. Shih, F. Jona, D.W. Jepsen and P.M. Marcus, Atomic underlayer, formation during the reaction of Ti{0001} with nitrogen 60 (1976) 445
T.N. Rhodin and G. Brodén, Preparation and chemisorptive properties of the clean normal and reconstructed surfaces of Ir(100) – role of multiplets 60 (1976) 466
G.L. Price, B.A. Sexton and B.G. Baker, The chemisorption of nitric oxide on (110) nickel studied by LEED, AES and thermal desorption 60 (1976) 506
M. Wilf and P.T. Dawson, Adsorption of nitrogen on platinum 60 (1976) 561

Chemisorption theory

M. Cini, Alkali chemisorption on small metal particles 52 (1975) 75
M. Smutek, The adsorption on a heterogeneous surface near the zero coverage 52 (1975) 445
R.A. van Santen, Theory of chemisorption of hydrogen on transition metals and their alloys 53 (1975) 35
M. Leynaud and G. Allen, Adsorption of transition metal monolayers on tungsten surfaces 53 (1975) 359
V. Heine, Electron states at surfaces (abstract only) 53 (1975) 408
R.O. Jones, P.J. Jennings and G.S. Painter, Cluster calculations of the electronic structure of transition metal surfaces 53 (1975) 409
E.I. Nagaev and G.L. Lazarew, On the mechanism of chemisorption on magnetic semiconductors 54 (1976) 101
W.Ho, S.L. Cunningham and W.H. Weinberg, Single atom chemisorption on a bcc metal 54 (1976) 139
R.H. Paulson and T.N. Rhodin, Electronic spectra of adsorbed chalcogen atoms: surface cluster approach 55 (1976) 61
K.F. Wojciechowski, Electronic properties of alkali submonolayers on a metal substrate 55 (1976) 246
E.N. Foo and S.G. Davison, Green function theory of chemisorption on sp-hybrid crystals 55 (1976) 274
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. I. Tight-binding calculations for adsorption on periodic surfaces 55 (1976) 291
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. II. Cluster models for adsorption sites 55 (1976) 313
D. Geschke, W.-D. Hoffmann and D. Deininger, Quantum chemical and NMR investigations on structure of surface complexes 57 (1976) 559
E. Miyazaki and I. Yasumori, Chemisorption of O_2 and NO molecules on transition d-metals 57 (1976) 755
N.R. Burke, A tight-binding theory of the interactions between transition metal adatoms adsorbed on a transition metal substrate 58 (1976) 349
D.E. Ellis, H. Adachi and F.W. Averill, Molecular cluster theory for chemisorption of first row atoms on nickel (100) surfaces 58 (1976) 497
J.C. Le Bossé and J. Lopez, Contribution of the indirect coupling to the binding energy of a chemisorbed diatomic molecule 58 (1976) 621
A. Gelb and M. Cardillo, Classical trajectory studies of hydrogen dissociation on a Cu(100) surface 59 (1976) 128
C.F. Melius, J.W. Moskowitz, A.P. Mortola, M.B. Baillie and M.A. Ratner, A molecular complex model for the chemisorption of hydrogen on a nickel surface 59 (1976) 279
L.M. Kahn and S.C. Ying, A model for alkali chemisorption 59 (1976) 333
G. Doyen, Semiepirical model calculations for chemisorption on transition metals. I. Exact solution and discussion of a simple model 59 (1976) 461
Robert J. Le Roy, Determining potential energy constants for atom- and molecule–surface interactions 59 (1976) 541

Chlorine

G. Rovida and F. Pratesi, Chlorine monolayers on the low-index faces of silver 51 (1975) 270

B. Weber, J.L. Philippart et A. Cassuto, Interactions du chlore sous basse pression avec le tantale à haute température 52 (1975) 311
F.P. Netzer and M. Prutton, Charge trapping in NiO surfaces during LEED observations 52 (1975) 505
J.E. Rowe, Anisotropic photoemission and chemisorption-bond geometry on Ge(111) and Si(111) surfaces 53 (1975) 461
J.Y. Caradec, J.L. Philippart, B. Weber et A. Cassuto, Etude par spectrométrie de masse en vision directe des interactions sous basse pression du pentachlorure de tantale avec le tantale à haute température 54 (1976) 593
J.B. Theeten and F. Hottier, On the role of chlorine in the vapour phase epitaxy of (100)GaAs as evidenced by LEED and RHEED 58 (1976) 583

Chromium

C. Nyberg, The reaction of oxygen with Ti, Cr, Fe and Ni studied by appearance potential spectroscopy 52 (1975) 1
S. Andersson and C. Nyberg, Soft X-ray appearance potential spectroscopy of C, N, O, and S chemisorbed on some 3d transition metals 52 (1975) 489

Clusters

R.C. Baetzold, Calculated model for metal cluster catalysis: H_2 dissociation 51 (1975) 1
C.L. Briant and J.J. Burton, Nearest-neighbor distances in microclusters 51 (1975) 345
R.O. Jones, P.J. Jennings and G.S. Painter, Cluster calculations of the electronic structure of transition metal surfaces 53 (1975) 409
I.P. Batra and C.R. Brundle, Cluster model calculation and photoemission studies of molecularly adsorbed NO on Ni 57 (1976) 12
J.E. Hulse and M. Moskovits, The interaction of CO with matrix-isolated Ni clusters: a model for CO chemisorbed on Ni 57 (1976) 125
D.E. Ellis, H. Adachi and F.W. Averill, Molecular cluster theory for chemisorption of first row atoms on nickel (100) surfaces 58 (1976) 497

Cobalt

R.C. Baetzold, Calculated model for metal cluster catalysis: H_2 dissociation 51 (1975) 1
J.T. Grant, M.P. Hooker and T.W. Haas, Appearance potential spectroscopy: relative signal strengths from 3d transition metals 51 (1975) 433
J.T. Grant, M.P. Hooker, R.W. Springer and T.W. Haas, The application of tailored modulation techniques to depth profiling with Auger electron spectroscopy 60 (1976) 1
C.R. Brundle, T.J. Chuang and D.W. Rice, X-ray photoemission study of the interaction of oxygen and air with clean cobalt surfaces 60 (1976) 285

Cobalt oxides

T.J. Chuang, C.R. Brundle and D.W. Rice, Interpretation of the X-ray photoemission spectra of cobalt oxide surfaces 59 (1976) 413

Contact angle

G. Grange, R. Landers and B. Mutaftschiev, Contact angle and surface morphology of KCl crystal–melt interface studied by the "bubble method" 54 (1976) 445

Contacts

J.D. van Otterloo and J.G. de Groot, Relation between interface states and temperature behavior of the barrier height of silver contacts on clean cleaved n-type silicon 57 (1976) 93

Copper

R.C. Baetzold, Calculated model for metal cluster catalysis: H_2 dissociation 51 (1975) 1
L. McDonnell, D.P. Woodruff and B.W. Holland, Angular dependence of Auger electron emission from Cu(111) and (100) surfaces 51 (1975) 249
F. Pons, J. Le Héricy and J.P. Langeron, Comments on " AES studies of surface composition of Ag–Cu alloys" by P. Braun and W. Färber, and on "Quantitative Auger analysis of copper–nickel alloy surfaces after argon ion bombardment" by H. Shimizu, M. Ono and K. Nakayama 51 (1975) 336
P. Braun and W. Färber, Reply to Comments on "AES studies of surface composition of Ag–Cu alloys" 51 (1975) 342
J.T. Grant, M.P. Hooker and T.W. Haas, Appearance potential spectroscopy: relative signal strengths from 3d transition metals 51 (1975) 433
C. Benndorf, J. Kessler und F. Thieme. Zur Isomorphie und Reinheit von auf Cu(111)-Oberflächen aufgedampften Kupfer 51 (1975) 553
J.M. McDavid and S.C. Fain, Jr., Segregation at Cu–Au alloy surfaces 52 (1975) 161
C.R. Helms, K.Y. Yu and W.E. Spicer, Further evidence for equilibrium surface segregation in the Cu–Ni alloys – CO and H_2 chemisorption 52 (1975) 217
L.L. Tongson and C.B. Cooper, Mass spectrometric study of the binary approximation in scattering of low energy ions from solid surfaces 52 (1975) 263
K. Horn and J. Pritchard, Wavelength modulated infrared reflection-absorption spectroscopy: ethane adsorbed on Cu(110) 52 (1975) 437
A. Cetronio, J.P. Jones and E.W. Roberts, A study of copper adsorption on (100) tungsten by high field microscopy 52 (1975) 473
M. Ono, H. Shimizu and K. Nakayama, Reply to Comments on "Quantitative Auger analysis of copper–nickel alloy surfaces after argon ion bombardment" 52 (1975) 681
J. Pritchard, T. Catterick and R.K. Gupta, Infrared spectroscopy of chemisorbed carbon monoxide on copper 53 (1975) 1
E. Bauer, F. Bonczek, H. Poppa and G. Todd, Thermal desorption of metals from tungsten single crystal surfaces 53 (1975) 87
P.E.C. Franken and V. Ponec, Ethylene adsorption on thin films of Ni, Pd, Pt, Cu, Au and Al: work function measurements 53 (1975) 341
H. Papp and J. Pritchard, The adsorption of Xe and CO on a Cu(311) single crystal surface 53 (1975) 371
R.O. Jones, P.J. Jennings and G.S. Painter, Cluster calculations of the electronic structure of transition metal surfaces 53 (1975) 409
A. Salwén and J. Rundgren, The structure of the p(2 × 2) tellurium overlayer on the (001) surface of copper investigated by LEED 53 (1975) 523
H.H. Brongersma and T.M. Buck, Selected topics in low-energy ion scattering surface segregation in Cu/Ni alloys and ion neutralization 53 (1975) 649
C. Argile and G.E. Rhead, Calbration in Auger electron spectroscopy by means of coadsorption 53 (1975) 659
E. Legrand-Bonnyns and A. Ponslet, Pre-oxidation structures at 650°C on

Cu(100), (210) and (841) surfaces studied by RHEED and microscopy 53 (1975) 675
C.T. Horng and R.W. Vook, The anomalous RHEED patterns observed from (111)Ag-(111)Cu bilayers 54 (1976) 309
P.E. Højlund Nielsen and J.M. Cowley, Surface imaging using diffracted electrons 54 (1976) 340
R.H. Roberts and J. Pritchard, Monolayer structures of Kr and Xe on Ag(111) and Cu(211) 54 (1976) 687
S.J. Gurman, Theory of surface states. II. The copper and tungsten (001) surfaces 55 (1976) 93
V.S. Sundaram and W.D. Robertson, Temperature dependence of specular and non-specular LEED beams from Cu_3Au 55 (1976) 324
P.S. Ho and J.E. Lewis, Deconvolution method for compositioni profiling by Auger sputtering technique 55 (1976) 335
B. Poelsema, L.K. Verhey and A.L. Boers, Study of low energy noble gas ion reflection from monocrystalline surfaces; influence of thermal vibrations of the surface atoms. I. Computer simulation of energy and spatial distributions 55 (1976) 445
H.M. Windawi, Effect of temperature on the sputtering yield of copper 55 (1976) 573
K. Horn and J. Pritchard, Infrared spectrum of CO chemisorbed on Cu(100) 55 (1976) 701
R.W. Stobie, B. Rao and M.J. Dignam, Infrared ellipsometry of adsorbed molecules: CO on evaporated Cu films 56 (1976) 334
R.H. Muller and C.G. Smith, Ellipsometry of mass-transport boundary layers 56 (1976) 440
P.C.S. Hayfield, Ellipsometry as an aid in studying metallic corrosion problems 56 (1976) 488
D.A. Bryan, D.L. Begley, K. Bhasin, R.W. Alexander, R.J. Bell and R. Gerson, Propagation distance of surface electromagnetic waves on two metal–oxide–air systems 57 (1976) 53
E.G. McRae and C.W. Caldwell, Very low energy electron reflection at Cu(001) surfaces 57 (1976) 77
K.Y. Yu, W.E. Spicer, I. Lindau, P. Pianetta and S.F. Lin, UPS studies of the bonding of H_2, O_2, CO, C_2H_4 and C_2H_2 on Fe and Cu 57 (1976) 157
D. Aberdam, R. Baudoing, E. Blanc and C. Gaubert, Theory of angular dependence in electron emission from surfaces; application to Auger emission from several metal surfaces 57 (1976) 306
P.S. Ho, J.E. Lewis, H.S. Wildman and J.K. Howard, Auger study of preferred sputtering on binary alloy surfaces 57 (1976) 393
M.-V. Mathieu et M. Primet, Inhibition par le cuivre de l'adsorption du monoxyde de carbone sur les alliages nickel–cuivre 58 (1976) 511
A. Gelb and M. Cardillo, Classical trajectory studies of hydrogen dissociation on a Cu(100) surface 59 (1976) 128
W. Losch and A.J. Monhemius, An AES study of a copper–iron sulphide mineral 60 (1976) 196
B. Poelsema, L.K. Verhey and A.L. Boers, Study of low energy noble gas ion reflection from monocrystalline surfaces; influence of thermal vibrations of the surface atoms. II. Calculational evaluation of the sensitivity for model parameters and possibilities for estimation 60 (1976) 485

Corrosion

R.W. Revie, J. O'M. Bockris and B.G. Baker, The degraded passive film on iron – an application of Auger electron spectroscopy 52 (1975) 664

J.S.L. Leach, The role of surface films in corrosion and oxidation 53 (1975) 257
J.E. Castle and D.C. Epler, The correlation of XPS analysis with electrochemical history in aqueous corrosion 53 (1975) 286
J. Kruger and J.R. Ambrose, Qualitative use of ellipsometry to study localized corrosion processes 56 (1976) 394
P.C.S. Hayfield, Ellipsometry as an aid in studying metallic corrosion problems 56 (1976) 488

Crystallization

C. van Leeuwen and P. Bennema, The critical nucleus 51 (1975) 109
A.G. Elliot, The condensation of gold onto tantalum (100) single crystal surfaces: LEED, AES analysis 51 (1975) 489

Cuprous oxide

D.A. Bryan, D.L. Begley, K. Bhasin, R.W. Alexander, R.J. Bell and R. Gerson, Propagation distance of surface electromagnetic waves on two metal–oxide–air systems 57 (1976) 53

Cyanogen

F.P. Netzer, Adsorption of cyanogen on Pt(100) 52 (1975) 709
M.E. Bridge, R.A. Marbrow and R.M. Lambert, Adsorption of cyanogen and hydrogen cyanide on Pt(110) and Ag(110) 57 (1976) 415

Cyclotron resonance studies

K.W. Chiu, T.K. Lee and J.J. Quinn, Infrared magneto-transmittance of a two-dimensional electron gas (extended abstract) 58 (1976) 182
T.A. Kennedy, R.J. Wagner, B.D. McCombe and D.C. Tsui, Frequency dependent effective masses in Si inversion layers at metallic densities 58 (1976) 185
J.P. Kotthaus and H. Kübleck, Temperature dependence of the cyclotron resonance in electron inversion layers on Si(extended abstract) 58 (1976) 199
M. von Ortenberg and R. Silbermann, Surface cyclotron resonance of accumulation and inversion layers in tellurium (extended abstract) 58 (1976) 202
R.J. Wagner, T.A. Kennedy, B.D. McCombe and D.C. Tsui, Frequency dependence of cyclotron resonance in Si inversion layers in the region of activated conductivity 58 (1976) 207

Decoration technique

J.C. Zanghi, Influence of a monatomic step on the collective behaviour of gold nuclei 60 (1976) 425

Deuterium

R.P.H. Gasser and D.E. Holt, Simultaneous and sequential adsorption of deuterium and nitrous oxide by rhenium 52 (1975) 457
I.E. Wachs and R.J. Madix, On the H_2–D_2 exchange on stepped platinum surfaces 58 (1976) 590

J.C. Cavalier and E. Chornet, Hydrogen–deuterium exchange on iron: kinetic anisotropies 60 (1976) 125

Dielectric constant

T.K. Lee and J.J. Quinn, Quantum oscillations in screening in a two-dimensional electron gas 58 (1976) 148
W.P. Chen, Y.J. Chen and E. Burstein, The interface EM modes of a "surface quantized" plasma layer on a semiconductor surface (extended abstract) 58 (1976) 263
L. Bonsall and A.A. Maradudin, Some dynamical properties of a two-dimensional Wigner crystal 58 (1976) 312

Diffusion

E. Fromm, Mechanism of chemisorption and interface penetration in reactive systems at low temperatures 52 (1975) 401
Electron diffraction, see also Low energy electron diffraction (LEED)
D. Aberdam, R. Baudoing and C. Gaubert, Medium energy electron diffraction on aluminum 52 (1975) 125
A.P. Janssen, Electron stimulated desorption of sodium and measurement of surface diffusion on MgO {001} by Auger spectroscopy 52 (1975) 230
P.M. Hall and J.M. Morabito, A formalism for extracting diffusion coefficients from concentration profiles 54 (1976) 79

Electron diffraction, see also LEED

C.T. Horng and R.W. Vook, The anomalous RHEED patterns observed from (111)Ag–(111)Cu bilayers 54 (1976) 309
P.E. Hojlund Nielsen and J.M. Cowley, Surface imaging using diffracted electrons 54 (1976) 340
E. Legrand-Bonnyns and A. Ponsler, Pre-oxidation structures at 650°C on Cu(100), (210) and (841) surfaces studied by RHEED and microscopy 53 (1975) 675
A.P. Janssen and R.C. Schoonmaker, An Auger and reflection electron diffraction investigation of oxygen and hydrogen adsorption on strontium surfaces 55 (1976) 109
P.B. Sewell and D.F. Mitchell, X-ray emission measurements of oxygen on the (0001) and (10$\bar{1}$0) surfaces of tellurium 55 (1976) 367
J.A. Venables, H.M. Kramer and G.L. Price, Observation of an adsorbed monolayer by transmission high energy electron diffraction 55 (1976) 373
G.J. Russell, RHEED study of the polar {111} surfaces of InSb and GaSb 55 (1976) 380
F.J. DiSalvo, charge density waves in layered compounds 58 (1976) 297
W. Krakow and D.G. Ast, Surface structure and surface lattice constant of (001) vapor deposited Au films using high resolution transmission electron microscopy 58 (1976) 485

Electron–electron interaction

E. Canel, Dynamic screening in very thin films (abstract only) 58 (1976) 147

Electron emission

B. Kasemo and L. Walldén, Photon and electron emission during halogen adsorption on sodium 53 (1975) 393

H. Schade, Evidence for electron emission stimulated desorption from negative electron affinity GaAs surfaces 55 (1976) 20
G. Allié, E. Blanc and D. Dufayard, Angular distribution of the Auger emission from aluminum and nickel surfaces 57 (1976) 293
D. Aberdam, R. Baudoing, E. Blanc and C. Gaubert, Theory of Angular dependence in electron emission from surfaces; application to Auger emission from several metal surfaces 57 (1976) 306
D. Voreades, Secondary electron emission from thin carbon films 60 (1976) 325

Electron loss spectroscopy

R.H. Williams and I.T. McGovern, Surface characterization of indium phosphide 51 (1975) 14
K. Jacobi, Surface states on phosphorus- and gallium-rich GaP($\bar{1}\bar{1}\bar{1}$) surfaces in electron energy-loss spectroscopy and photoemission 51 (1975) 29
F.P. Netzer and J.A.D. Matthew, Low energy electron spectroscopy of Pt(100) and Pt(100)/CO 51 (1975) 352
L.S. Cota Araiza and B.D. Powell, Study of surface dissociation in KCl and LiF by observation of plasmon losses associated with K and Li 51 (1975) 504
J.E. Rowe, J.C. Tracy and S.B. Christman, Plasmon–interband coupling in gallium compounds 52 (1975) 277
H. Papp and J. Pritchard, The adsorption of Xe and CO on a Cu(311) single crystal surface 53 (1975) 371
K. Christmann, G. Ertl and T. Pignet, Adsorption of hydrogen on a Pt(111) surface 54 (1976) 365
G. McElhiney, H. Papp and J. Pritchard, The adsorption of Xe and CO on Ag(111) 54 (1976) 617
A. Koma and R. Ludeke, Core- and valence-electron spectra of clean Si surfaces by energy loss spectroscopy 55 (1976) 735
F. Meyer, Ellipsometric studies of adsorption reactions on clean surfaces 56 (1976) 37
J.M. Wilson, Energy loss spectroscopy of sulphide films on Mo(100) 57 (1976) 499
J. Pillon, D. Roptin and M. Cailler, Secondary electron emission from aluminium 57 (1976) 741
Y.W. Chung, W. Siekhaus and G.A. Somorjai, Studies of acetylene and oxygen adsorption on silicon surfaces by low-energy electron loss spectroscopy 58 (1976) 341
M.A. Chesters, B.J. Hopkins and R.I. Winton, Auger and electron energy loss spectra of adsorbed species: α and β states of carbon monoxide and nitrogen on W(100) 59 (1976) 46
L.Y.L. Shen, Energy loss spectra, Auger spectra and high energy electron diffraction of A-15 superconductors 60 (1976) 239
D. Voreades, Secondary electron emission from thin carbon films 60 (1976) 325
K. Christmann and G. Ertl, Interaction of hydrogen with Pt(111): the role of atomic steps 60 (1976) 365

Electron microscopy

K. Reichelt and D. Alter, The decoration of (h10) rocksalt faces 51 (1975) 557
A.M. Brown and P.L. Surman, Oxidation of iron within the scanning electron microscope: oxide crystallite growth kinetics during the oxidation of iron in CO_2 52 (1975) 85
P.E. Hojlund Nielsen and J.M. Cowley, Surface imaging using diffracted electrons 54 (1976) 340

W. Krakow and D.G. Ast, Surface structure and surface lattice constant of (001) vapor deposited Au films using high resolution transmission electron microscopy 58 (1976) 485
Vu Thien Binh, R. Uzan and M. Drechsler, A determination of the rate and heat of evaporation by measuring the radius variations of a metal tip 60 (1976) 13

Electron reflection, see also Electron scattering

E.G. McRae and C.W. Caldwell, Elastic-scattering resonances observed in very low energy electron reflection at oxygenated Ni(100) surfaces 57 (1976) 63
E.G. McRae and C.W. Caldwell, Absorptive potential in nickel from very low energy electron reflection at Ni(001) surface 57 (1976) 766

Electron scattering

E.G. McRae, Calculation of absorptive potentials for low energy electron scattering from optical data for solid Mg, Al, Cu, Ag, Au, Bi, C and Al_2O_3 57 (1976) 761
A. Hartstein, T.H. Ning and A.B. Fowler, Electron scattering in silicon inversion layers by oxide and surface roughness (extended abstract) 58 (1976) 178

Electron spectroscopy, see also Auger electron spectroscopy, Photoelectron spectroscopy

J.D. Langan and P.K. Hansma, Can the concentration of surface species be measured with inelastic electron tunneling? 52 (1975) 211
R.F. Willis and B. Feuerbacher, Angular-resolved secondary-electron-emission spectroscopy of clean and adsorbate covered tungsten single-crystal surfaces 53 (1975) 144
H.D. Hagstrum, The determination of energy-level shifts which accompany chemisorption 54 (1976) 197
S.K. Sen, R.P. Gupta and W.H. Chung, Observation of plasmons and density of states in stainless steel 55 (1976) 709
J. Verhoeven and J. Los, The influence of an electron beam on oxidation of polycrystalline nickel surfaces, monitored by disappearance potential spectroscopy (DAPS) 58 (1976) 566

Electron spin resonance (ESR)

P.J. Caplan, J.N. Helbert, B.E. Wagner and E.H. Poindexter, Paramagnetic defects in silicon/silicon dioxide systems 54 (1976) 33

Electron stimulated adsorption (ESD)

Y. Margoninski, D. Segal and R.E. Kirby, The interference of an electron beam with the surface reaction between oxygen and germanium 53 (1976) 488
J. Verhoeven and J. Los, The influence of an electron beam an oxidation of polycrystalline nickel surfaces, monitored by disappearance potential spectroscopy (DAPS) 58 (1976) 566
A.P. Janssen, Electron stimulated desorption of sodium and measurement of surface diffusion on MgO {001} by Auger spectroscopy 52 (1975) 230
B.G. Baker and B.A. Sexton, Electron beam effects in Auger analysis of

physiorbed xenon 52 (1975) 353
F.E. Domann, A radiotracer study of slow electron interaction with CO on polycrystalline Mo 54 (1976) 529
H. Schade, Evidence for electron emission stimulated desorption from negative electron affinity GaAs surfaces 55 (1976) 20
P.D. Reed and R.M. Lambert, Surface crystallography, adsorbate structure, adsorption kinetics and surface reactivity – carbon suboxide (C_3O_2) on Pt(110) 57 (1976) 485
T.E. Madey, J.J. Czyzewski and J.T. Yates, Jr., Ion angular distributions in electron stimulated desorption: oxygen and CO on W(111) 57 (1976) 580
P.D. Reed, C.M. Comrie and R.M. Lambert, Chemisorption, surface structural chemistry, and electron impact properties of carbon monoxide on Ru(101) 59 (1976) 33
G.R. Floyd and R.H. Prince, Electron stimulated desorption of fluorine and barium from tungsten 59 (1976) 631
C. Leung and R. Gomer, A low temperature precursor to chemisorbed oxygen on tungsten (110) 59 (1976) 638

Electron transmission

R.J. Stein, Electron transmission measurements of electron mean free path in supported thin films from 1–5 keV 60 (1976) 436

Ellipsometry

M. Ohlidal, I. Ohlidal and F. Lukeš, Ellipsometric studies of polished silicon surfaces 55 (1976) 467
G. Quentel et R. Kern, Approche théorique par ellipsométrie des constantes optiques de couches monoatomiques physisorbées 55 (1976) 545
T. Smith, Auger electron spectroscopy and ion sputter profiles of oxides on aluminum 55 (1976) 601
J. Horkans, Comment on the use of "Kramers–Kronig analysis for the determination of the optical constants of thin surface films" by K. Naegele and W.J. Plieth 55 (1976) 713
W.J. Plieth and K. Naegele, Reply to Comment on the use of "Kramers–Kronig analysis for the determination of the optical constants of thin surface films" 55 (1976) 715
A.B. Winterbottom, Summary of conditions for precision in applications of ellipsometry to surface and film studies 56 (1976) 1
R.M.A. Azzam, A perspective on ellipsometry 56 (1976) 6
R.H. Muller, Present status of automatic ellipsometers 56 (1976) 19
F. Meyer, Ellipsometric studies of adsorption reactions on clean surfaces 56 (1976) 37
M. Malin and K. Vedam, Generalized ellipsometric method for the determination of all the optical constants of the system: optically absorbing film on an absorbing substrate 56 (1976) 49
K. Kinosita and M. Yamamoto, Principal angle-of-incidence ellipsometry 56 (1976) 64
M.A.B. Gültepe, Some considerations on the determination of optical properties of adsorbed films 56 (1976) 76
A.-R.M. Zaghloul, R.M.A. Azzam and N.M. Bashara, Inversion of the nonlinear equations of reflection ellipsometry on film–substrate systems 56 (1976) 87
S.S. So, Ellipsometric analyses for an absorbing surface film on an absorbing substrate with or without an intermediate surface layer 56 (1976) 97

A. Rothen, Immunologic reactions carried out at a liquid–solid interface 56 (1976) 109
S.M. Ma, D.L. Coleman and J.D. Andrade, Ellipsometry studies of albumin films on tantalum oxide and SiO_2 56 (1976) 117
R.M.A. Azzam, Use of a light beam to probe the cell surface in vitro 56 (1976) 126
A.C. Lowe, Practical limitations to accuracy in a nulling automatic wavelength-scanning ellipsometer 56 (1976) 134
P.S. Hauge, Generalized rotating-compensator ellipsometry 56 (1976) 148
D.E. Aspnes, A photometric ellipsometer for measuring flux in a general state of polarization 56 (1976) 161
D.N. Henty and H.G. Jerrard, A universal ellipsometer 56 (1976) 170
O. Hunderi and R. Ryberg, A simple automatic ellipsometer for a wide energy range 56 (1976) 182
E.G. Lluesma, C.A. Pela and I. Wilmanns, A new automatic ellipsometer 56 (1976) 189
C.C. Matheson, J.G. Wright, R. Gundermann and H. Norris, A high precision, polychromatic, automatic ellipsometer 56 (1976) 196
T. Smith, An automated scanning ellipsometer 56 (1976) 212
K. Vedam, Characterization of defects in real surfaces by ellipsometry 56 (1976) 221
F. Abelès, Surface electromagnetic waves ellipsometry 56 (1976) 237
T. Smith, Effect of surface roughness on ellipsometry of aluminum 56 (1976) 252
D. den Engelsen, Optical anisotropy in ordered systems of lipids 56 (1976) 272
M. Elshazly-Zaghloul, R.M.A. Azzam and N.M. Bashara, Explicit solution for the optical properties of a uniaxial crystal in generalized ellipsometry 56 (1976) 281
D.J. De Smet, Generalized ellipsometry and the 4 × 4 matrix formalism 56 (1976) 293
J.R. Adams, Complex refractive index and phosphorus concentration profiles in P_{31}^{+} ion implanted silicon by ellipsometry and Auger electron spectroscopy 56 (1976) 307
S. Kawahata and K. Ichiji, Optical anisotropy in the plane parallel to the surface of obliquely evaporated gold films 56 (1976) 316
D.E. Aspnes, Extending scanning ellipsometric spectra into experimentally inacccesible regions 56 (1976) 322
R.W. Stobie, B. Rao and M.J. Dignam, Infrared ellipsometry of adsorbed molecules: CO on evaporated Cu films 56 (1976) 334
B.D. Cahan, Implications of three parameter solutions to the three-layer model 56 (1976) 354
S. Gottesfeld, M. Babai and B. Reichman, Combined ellipsometric and reflectometric measurements of surface processes on noble metal electrodes 56 (1976) 373
J. Kruger and J.R. Ambrose, Qualitative use of ellipsometry to study localized corrosion processes 56 (1976) 394
J.L. Ord, An optical study of the deposition and conversion of nickel hydroxide films 56 (1976) 413
E.F.I. Roberts and D. Ross, Anomalous optical constants of thin films 56 (1976) 425
R.H. Muller and C.G. Smith, Ellipsometry of mass-transport boundary layers 56 (1976) 440
G.R. Boyer and B.S. Prade, Atmospheric and wind tunnel air-flow-birefringence measurements 56 (1976) 449
E.P. Honig and B.R. de Koning, Ellipsometric investigation of the skeletonization process of Langmuir–Blodgett films 56 (1976) 454
T.H. Allen, Ellipsometric measurements on vapor deposited organic films 56 (1976) 462
M.A. Hopper, R.A. Clarke and L. Young, Removal of oxide films from silicon surfaces in a high vacuum system: an in situ ellipsometric study 56 (1976) 472
J.R. Adams and D.K. Kramer, A study of the oxidation of tantalum nitride by ellipsometry and Auger electron spectroscopy 56 (1976) 482

P.C.S. Hayfield, Ellipsometry as an aid in studying metallic corrosion problems 56 (1976) 488
S. Gottesfeld, M. Babai and B. Reichman, The analysis of surface processes on solid electrons by combined modulated ellipsometric and reflectometric experiments 57 (1976) 251
O. Hunderi, Ellipsometric study of lithium hydroxide overlayers on lithium 57 (1976) 451

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Epitaxy

A.G. Elliot, The condensation of gold onto tantalum (100) single crystal surfaces: LEED, AES analysis 51 (1975) 489
C. Benndorf, J. Kessler und F. Thieme, Zur Isomorphie und Reinheit von auf Cu(111)-Oberflächen aufgedampften Kupfer 51 (1975) 553
A. Boateng and G. Meyrick, Field ion microscopic observations of the formation of molybdenum films epitaxially related to tungsten substrates 57 (1976) 205
J.B. Theeten and F. Hottier, On the role of chlorine in the vapour phase epitaxy of (100)GaAs as evidenced by LEED and RHEED 58 (1976) 583
M. Auboiroux, D. Marchand, P. Tougne, A.P. Legrand and J.C. Thuillier, Non-symmetrical (1$\bar{2}$10) planes of tellurium correlated to the non-symmetrical epitaxy of selenium deposited on these faces 59 (1976) 218

Ethane

J. Kärger, On the correlation between diffusion and self-diffusion processes of adsorbed molecules in a simple microkinetic model 57 (1976) 749

Ethylene

P.E.C. Franken and V. Ponec, Ethylene adsorption on thin films of Ni, Pd, Pt, Cu, Au and Al; work function measurements 53 (1975) 341
R. Ducros, G. Piquard, B. Weber et A. Cassuto, Spectres Auger du carbone; carbures de tantale et adsorption d'éthylène et de monoxyde de carbone sur tantale et rhénium polycristallin 54 (1976) 513
H.A. Pearce and N. Sheppard, Possible importance of a "metal–surface selection rule" in the interpretation of the infrared spectra of molecule adsorbed on particulate metals; infrared spectra from ethylene chemisorbed on silica-supported metal catalysts 59 (1976) 205

Evaporation

B. Goldstein, D.J. Szostak and V.S. Ban, Langmuir evaporation from the (100), (111A), and (111B) faces of GaAs 57 (1976) 733
Vu Thien Binh, R. Uzan and M. Drechsler, A determination of the rate and heat of evaporation by measuring the radius variations of a metal tip 60 (1976) 13

Facetting

V.E. Henrich, Thermal facetting of (110) and (111) surfaces of MgO 57 (1976) 385

Field effect

K. Nakamuta, Hot electrons in Si inversion layer 58 (1976) 48
T. Cole, A.A. Lakhani and P.J. Stiles, Fine structure in the field effect mobility of MOS transistors 58 (1976) 56
S. Aymeloglu and J.N. Zemel, Field effect studies on n-channel (100) MOSFET's at 4.2 to 77 K 58 (1976) 98
T. Neugebauer, K. von Klitzing, G. Landwehr and G. Dorda, Quantum oscillations in (110) and (111) n-channel MOSFET's (extended abstract) 58 (1976) 261

Field emission, see also Field emission microscopy, Field ion microscopy

B. Caroli, Field-emission in the presence of a magnetic field 51 (1975) 237
M. Wilf and M. Folman, Field electron emission study of nitrogen absorbed on individual tungsten planes 52 (1975) 10
Y. Teisseyre, R. Coelho and R. Haug, Photo-stimulated field emission of barium-coated tungsten 52 (1975) 120
R. Meclewski, Ch. Kleint and R. Blaszczyszyn, Correlation of field emission flicker noise and work function for tungsten single crystal planes with adsorbed potassium 52 (1975) 365
N. Nicolaou and A. Modinos, Band-structure effects in field-emission energy distributions in tungsten (abstract only) 53 (1975) 443
T.E. Sullivan, P.H. Cutler and A.A. Lucas, Thermal and field emission effects of laser radiation on metal whisker diodes: application to infrared detection devices 54 (1976) 561
S. Ranc, M. Pitaval and G. Fontaine, Stable field emission for electron beam illumination 57 (1976) 667
N. Nicolaou and A. Modinos, Effect of surface potential on field-emission energy distributions and on the surface density of states 60 (1976) 527
T. Radón and Ch. Kleint, Photo field-emission spectroscopy of optical transitions in the band structure of tungsten 60 (1976) 540

Field emission microscopy (FEM), see also Field emission

R.A. Shigeishi, Adsorption of methane on a tungsten field emitter 51 (1975) 377
M. Domke, J.H. Block and M. Drechsler, The influence of electric fields on adsorbed gases: FEM of oxygen on tungsten single crystal faces 51 (1975) 451
K. Bobev and Z. Mireva, Study of mercury surface diffusion on tantalum with and without an electric field by means of a field emission microscope 51 (1975) 513
A.L. Suvorov, T.L. Razinkova and V.A. Kuznetsov, Computer simulation of field electron images 52 (1975) 697
M.J. Southon, E.D. Boyes, P.J. Turner and A.R. Waugh, Some applications of field-ionization and field-evaporation techniques in the study of surfaces 53 (1975) 554
K. Senzaki, K. Kuriyama and K. Kawasaki, Surface structure of titanium observed by field emission microscope 55 (1976) 697
H. Roux, A. Piquet, R. Uzan et M. Drechsler, Une détermination du coefficient d'autodiffusion de surface en présence d'une couche d'adsorption à l'aide de pointoes à émission de champ (nickel sur tungstène) 59 (1976) 97
B.E. Nieuwenhuys, Influence of the surface structure on the adsorption of hydrogen on platinum, as studied by field emission probe-hole microscopy 59 (1976) 430
M. Blaszczyszyn, Work function of adsorption systems potassium on tantalum

and on molybdenum 59 (1976) 533
L. Richter and R. Gomer, Field emission spectroscopy of gold on the (110) and (211) planes of tungsten 59 (1976) 575
Vu Thien Binh, R. Uzan and M. Drechsler, A determination of the rate and heat of evaporation by measuring the radius variations of a metal tip 60 (1976) 13
O. Nishikawa and A.R. Saadat, Field emission and field ion microscope study of Ga, In and Sn on W: structure, work function, diffusion and binding energy 60 (1976) 301

Field evaporation, see also Field emission

T. Sakurai and E.W. Müller, Field evaporation experiments with a magnetic sector atom-probe FIM 51 (1975) 38
M.J. Southon, E.D. Boyes, P.J. Turner and A.R. Waugh, Some applications of field-ionization and field-evaporation techniques in the study of surfaces 53 (1975) 554
T. Adachi and S. Nakamura, Field evaporation end form at 4.2 K 59 (1976) 61

Field ionization, see also Field emission, Field ion microscopy

D.R. Penn, Measurement of the surface density of states by field ionization 52 (1975) 270
H. Iwasaki and S. Nakamura, Ion current generation in the field ion microscope, I. Dynamic approach 52 (1975) 588
H. Iwasaki and S. Nakamura, Ion current generation in the field ion microscope. II. Quasi-static approach 52 (1975) 597
M.J. Southon, E.D. Boyes, P.J. Turner and A.R. Waugh, Some applications of field-ionization and field-evaporation techniques in the study of surfaces 53 (1975) 554
R. Brako and M. Šunjić, Surface plasmon excitation in field ion emission 54 (1976) 434
G.R. Hanson and M.G. Inghram, Surface dependence of field ion energy distributions, He on W 55 (1976) 29
L. Holmlid and J.O. Olsson, Molecular beam surface ionization detection. I. Absolute ionization coefficients and work function of "low work function" Pt(8%W) surfaces 55 (1976) 523
R.G. Forbes, Comment on "Surface plasmon excitation in field ion emission" by R. Brako and M. Šunjić 60 (1976) 260
R. Brako, M. Šunjić and A. Lucas, On the plasmon interpretation of the secondary structure in field ion emission spectra 60 (1976) 262

Field ion microscopy (FIM), see also Field emission

T. Sakurai and E.W. Müller, Field evaporation experiments with a magnetic sector atom-probe FIM 51 (1975) 38
T. Sakata and S. Nakamura, Surface diffusion of molybdenum atoms on tungsten surfaces 51 (1975) 313
R.A. Shigeishi, Adsorption of methane on a tungsten field emitter 51 (1975) 377
P.D. Prabhawalkar, V.S. Raghunathan and S. Ranganathan, Computer simulation of field-ion images from interstitial alloys 51 (1975) 441
A. Cetronio, J.P. Jones and E.W. Roberts, A study of copper adsorption on (100) tungsten by high field microscopy 52 (1975) 473
D.W. Bassett, Surface atom displacement processes 53 (1975) 74
M.P. Seah, Interface adsorption, embrittlement and fracture in metallurgy – a review 53 (1975) 168

M.J. Southon, E.D. Boyes, P.J. Turner and A.R. Waugh, Some applications of field-ionization and field-evaporation techniques in the study of surfaces 53 (1975) 554
G.G. Summers and H.N. Southworth, The effect of temperature and electrostatic field on tungsten and iridium field-ion emitters 53 (1975) 583
A. Boateng and G. Meyrick, Field ion microscopic observations of the formation of molybdenum films epitaxially related to tungsten substrates 57 (1976) 205
L. Ernst, Comments on "Study of mercury surface diffusion on tantalum with and without an electric field by means of a field emission microscope" by K. Bobev and Z. Mireva 57 (1976) 449
J.J. Carroll and A.J. Melmed, Field ion microscopy of zirconium 58 (1976) 601
R. Kumar and H.E. Grenga, Surface energy anisotropy of tungsten 59 (1976) 612
G.K.L. Cranstoun and D.R. Pyke, Field ion microscope observations of surface rearrangement and oxide formation at clean rhenium surfaces heated in oxygen 60 (1976) 157
O. Nishikawa and A.R. Saadat, Field emission and field ion microscope study of Ga, In and Sn on W: structure, work function, diffusion and binding energy 60 (1976) 301

Flash desorption, see also Thermal desorption

F.P. Netzer and G. Kneringer, The adsorption of hydrogen and the reaction of hydrogen with oxygen on Pt(100) 51 (1975) 526
R.J. Madix and J.L. Falconer, Surface stabilized reaction intermediate: formic anhydride 51 (1975) 546
R.P.H. Gasser, G.V. Jackson and F.E. Rolling, The decomposition of methanol on tungsten 52 (1975) 199
C.R. Helms, K.Y. Yu and W.E. Spicer, Further evidence for equilibrium surface segregation in the Cu–Ni alloys – CO and H_2 chemisorption 52 (1975) 217
R.P.H. Gasser and D.E. Holt, Simultaneous and sequential adsorption of deuterium and nitrous oxide by rhenium 52 (1975) 457
F.P. Netzer, Adsorption of xyanogen on Pt(100) 52 (1975) 709
D. Edwards, Jr., Peak widths of elementary first and second order desorption transients 54 (1976) 1
R.J. Madix, J.L. Falconer and A.M. Suszko, The autocatalytic decomposition of acetic acid on Ni(110) 54 (1976) 6
J.G. McCarty and R.J. Madix, The adsorption of CO, H_2, CO_2 and H_2O on carburized and graphitized Ni(110) 54 (1976) 121
J.G. McCarty and R.J. Madix, Formic acid desorption from graphitized Ni(110) 54 (1976) 210
B.J. Hopkins, A.R. Jones and R.I. Winton, An AES, LEED and work function study of CO_2 adsorption on W(100) 57 (1976) 266
P.D. Reed and R.M. Lambert, Surface crystallography, adsorbed structure, adsorption kinetics and surface reactivity – carbon suboxide (C_3O_2) on Pt(110) 57 (1976) 485
E. Bauer, H. Poppa and Y. Viswanath, Adsorption of oxygen on W(100): adsorption kinetics and structure 58 (1976) 517
Y. Viswanath, G. Sanders and L.D. Schmidt, Adsorbate densities on (100)W 59 (1976) 297
R.W. McCabe and L.D. Schmidt, Adsorption of H_2 and CO on clean and oxidized (110) Pt 60 (1976) 85

Formic acid

R.J. Madix and J.L. Falconer, Surface stabilized reaction intermediate: formic anhydride 51 (1975) 546
J.G. McCarty and R.J. Madix, Formic acid desorption from graphitized Ni(100) 54 (1976) 210

Gallium

J.E. Rowe, J.C. Tracy and S.B. Christman, Plasmon–interband coupling in gallium compounds 52 (1975) 277
H. Clemens, W. Mönch and J. von Wienskowski, On electronic properties of cleaved and cesiated GaAs(110) and Ge(111) surfaces (abstract only) 53 (1975) 473
O. Nishikawa and A.R. Saadat, Field emission and field ion microscope study of Ga, In and Sn on W: structure, work function, diffusion and binding energy 60 (1976) 301

Gallium antimonide

G.J. Russell, RHEED study of the polar {111} surfaces of InSb and GaSb 55 (1976) 380
D.E. Aspnes, Extending scanning ellipsometric spectra into experimentally inaccessible regions 56 (1976) 322

Gallium arsenide

A. Huijser and J. van Laar, Work function variations of gallium arsenide cleaved single crystals 52 (1975) 202
J.E. Rowe, J.C. Tracy and S.B. Christman, Plasmon–interband coupling in gallium compounds 52 (1975) 277
P. Masri and M. Lannoo, A calculation of the intrinsic (111) surface states of the zinc blende $A^{N}B^{8-N}$ compounds 52 (1975) 377
H. Ibach, Relations between electronic properties of clean surfaces and activated adsorption 53 (1975) 444
H. Clemens, W. Mönch and J. von Wienskowski, On electronic properties of cleaved and cesiated GaAs(110) and Ge(111) surfaces (abstract only) 53 (1975) 473
J.C. Phillips and K.C. Pandey, Surface resonances in photoemission spectra of GaAs 54 (1976) 183
P.E. Gregory and W.E. Spicer, Photoemission study of the adsorption of O_2, CO and H_2 on GaAs(110) 54 (1976) 229
H. Schade, Evidence for electron emission stimulated desorption from negative electron affinity GaAs surfaces 55 (1976) 20
D.E. Aspnes, Extending scanning ellipsometric spectra into experimentally inaccessible regions 56 (1976) 322
A.J. van Bommel and J.E. Crombeen, LEED, Auger electron spectroscopy (AES) and photoemission studies of the adsorption of cesium on the epitaxially grown GaAs(110) surface 57 (1976) 109
A.J. van Bommel and J.E. Crombeen, Experimental determination of the correlation between the LEED pattern and the Ga–As bond vectors in the surface of GaAs(001) 57 (1976) 437
K. Jacobi, G. Steinert and W. Ranke, Iodine etching of the GaAs($\bar{1}\bar{1}\bar{1}$)As surface studied by LEED, AES, and mass spectroscopy 57 (1976) 571
B. Goldstein, D.J. Szostak and V.S. Ban, Langmuir evaporation from the (100), (111A), and (111B) faces of GaAs 57 (1976) 733

J.B. Theeten and F. Hottier, On the role of chlorine in the vapour phase epitaxy of (100)GaAs as evidenced by LEED and RHEED 58 (1976) 583
S.C. Dahlberg, Photovoltage studies of clean and oxygen covered gallium arsenide 59 (1976) 83
W.H. Laflère, R.L. Van Meirhaeghe, F. Cardon and W.P. Gomes, On the frequency-dependence of the impedance of n- and p-type gallium arsenide electrodes 59 (1976) 401

Gallium phosphide

K. Jacobi, Surface states on phosphorus- and gallium-rich GaP($\bar{1}\bar{1}\bar{1}$) surfaces in electron energy-loss spectroscopy and photoemission 51 (1975) 29
J.E. Rowe, J.C. Tracy and S.B. Christman, Plasmon–interband coupling in gallium compounds 52 (1975) 277

Gallium selenide

M. Elshazly-Zaghloul, R.M.A. Azzam and N.M. Bashara, Explicit solution for the optical properties of a uniaxial crystal in generalized ellipsometry 56 (1976) 281

Germanium

S. Sinharoy and M. Henzler, Binding states of water vapor on cleaved germanium 51 (1975) 75
J.E. Rowe, Anisotropic photoemission and chemisorption-bond geometry on Ge(111) and Si(111) surfaces 53 (1975) 461
Y. Margoninski, D. Segal and R.E. Kirby, The interference of an electron beam with the surface reaction between oxygen and germanium 53 (1975) 488
E.N. Foo and S.G. Davison, Green function theory of chemisorption on sp-hybrid crystals 55 (1976) 274
L.N. Surnev, Adsorption of sodium and its effect upon some electric properties of clean germanium (111) surfaces 55 (1976) 625
F. Meyer, Ellipsometric studies of adsorption reactions on clean surfaces 56 (1976) 37
R.J. Stein, Electron transmission measurements of electron mean free path in supported thin films from 1–5 keV 60 (1976) 436

Gold

J.K. Sass, Evidence for an anisotropic volume photoelectric effect in polycrystalline nearly free electron metals 51 (1975) 199
A.G. Elliot, The condensation of gold onto tantalum (100) single crystal surfaces: LEED, AES analysis 51 (1975) 489
M.A. Chesters and G.A. Somorjai, The chemisorption of oxygen water and selected by hydrocarbons on the (111) and stepped gold surfaces 52 (1975) 21
N.A. Surplice and W. Brearley, The adsorption of carbon monoxide, ammonia, and wet air on gold 52 (1975) 62
B.J. Wood and H. Wise, Surface composition of Pd–Au and Pd–Ag catalysts by Auger electron spectroscopy 52 (1975) 151
J.M. McDavid and S.C. Fain, Jr., Segregation at Cu–Au alloy surfaces 52 (1975) 161
J.C. Zanghi, J.J. Métois and R. Kern, Elastic interaction between small nuclei 52 (1975) 556
E. Bauer, F. Bonczek, H. Poppa and G. Todd, Thermal desorption of metals from tungsten single crystal surfaces 53 (1975) 87

S.A. Flodström, G.V. Hansson, S.B.M. Hagström and J.E. Endriz, Photoemission with polarized light from free-electron and transition metals 53 (1975) 156
P.E.C. Franken and V. Ponec, Ethylene adsorption on thin films of Ni, Pd, Pt, Cu, Au and Al; work function measurements 53 (1975) 341
I.G. Higginbotham, R.H. Williams and A.J. McEvoy, Adhesion at gold-mica interfaces (abstract only) 53 (1975) 581
P.M. Hall and J.M. Morabito, A formalism for extracting diffusion coefficients from concentration profiles 54 (1976) 79
W.Y. Lee and L.J. Slutsky, The interaction of naphthalene and adamantane with gold surfaces 54 (1976) 169
J.W. Schultze and D. Dickertmann, Potentiodynamic desorption spectra of metallic monolyaers of Cu, Bi, Pb, Tl, and Sb adsorbed at (111), (100), and (110) planes of gold electrodes 54 (1976) 489
S.H. Overbury and G.A. Somorjai, The surface composition of the silver–gold system by Auger electron spectroscopy 55 (1976) 209
V.S. Sundaram and W.D. Robertson, Temperature dependence of specular and non-specular LEED beams from Cu_3Au 55 (1976) 324
P.S. Ho and J.E. Lewis, Deconvolution method for composition profiling by Auger sputtering technique 55 (1976) 335
D. Kashchiev, Kinetics of thin film coalescence due to crystallite surface migration 55 (1976) 477
C.C. Matheson, J.G. Wright, R. Gundermann and H. Norris, A high precision, polychromatic, automatic ellipsometer 56 (1976) 196
F. Abelès, Surface electromagnetic waves ellipsometry 56 (1976) 237
S. Kawabata and K. Ichiji, Optical anisotropy in the plane parallel to the surface of obliquely evaporated gold films 56 (1976) 316
D.E. Aspnes, Extending scanning ellipsometric spectra into experimentally inaccessible regions 56 (1976) 322
B.D. Cahan, Implications of three prameter solutions to the three-layer model 56 (1976) 354
S. Gottesfeld, M. Babai and B. Reichman, Combined ellipsometric and reflectometric measurements of surface processes on noble metal electrodes 56 (1976) 373
E.F.I. Roberts and D. Ross, Anomalous optical constants of thin films 56 (1976) 425
S. Gottesfeld, M. Babai and B. Reichman, The analysis of surface processes on solid electrons by combined modulated ellipsometric and reflectometric experiments 57 (1976) 251
C. Pariset et J.P. Chauvineau, L'adsorption du bismuth sur des films minces d'or etudiée par variation de résistance électrique 57 (1976) 363
J.J. Burton, C.R. Helms and R.S. Polizzotti, Surface segregation in alloys: existence of ordered overlayers of Au segregated to the Ni(111) surface 57 (1976) 425
A. Hamelin and J. Lecoeur, The orientation dependence of zero charge potentials and surface energies of gold crystal faces 57 (1976) 771
W. Krakow and D.G. Ast, Surface structure and surface lattice constant of (001) vapor deposited Au films using high resolution transmission electron microscopy 58 (1976) 485
R. Bouwman, L.H. Toneman, M.A.M. Boersma and R.A. van Santen, Surface enrichment in Ag–Au alloys 59 (1976) 72
J.P. Biberian, Another model for the condensation of gold on tatalum (100) 59 (1976) 307
G.C. Nelson, Determination of the surface versus bulk composition of silver–gold alloys by low energy ion scattering spectroscopy 59 (1976) 310

L. Richter and R. Gomer, Field emission spectroscopy of gold on the (110) and (211) planes of tungsten 59 (1976) 575
G. McElhiney and J. Pritchard, The adsorption of Xe and CO on Au(100) 60 (1976) 397
J.C. Zanghi, Influence of a monatomic step on the collective behaviour of gold nuclei 60 (1976) 425
R.J. Stein, Electron transmission measurements of electron mean free path in supported thin films from 1–5 keV 60 (1976) 436

Grain boundary

M.P. Seah, Interface adsorption, embrittlement and fracture in metallurgy – a review 53 (1975) 168
Vu Thien Binh, M. Chaudier, J.C. Couturier, R. Uzan and M. Drechsler, Grain boundary groove evolutions by surface self-diffusion on a plane and on a wire 57 (1976) 184
P.M. Hall and J.M. Morabito, A formalism for determining grain boundary diffusion coefficients using surface analysis 59 (1976) 624

Graphite

S. Ross and I.D. Morrison, Computed adsorptive-energy distribution in the monolayer (CAEDMON) 52 (1975) 103
C. Bernard, J. Suzanne, M. Bienfait et P. Hicter, Application d'un modèle de l'état liquide à une monocouche de xénon ou de krypton absorbées sur la surface (0001) du graphite 52 (1975) 340
S. Bukshpan, T. Sonnino and J.G. Dash, Debye–Waller factor of molecules absorbed on graphite 52 (1975) 466
C. Webb and P.M. Williams, Appearance potential spectroscopy of layer materials 53 (1975) 110
J.G. McCarty and R.J. Madix, The adsorption of CO, H_2, CO_2 and H_2O on carburized and graphitized Ni(110) 54 (1976) 121
H.M. Kramer and J. Suzanne, Adsorption of krypton on the basal plane of graphite: LEED and Auger measurements 54 (1976) 659
J.A. Venables, H.M. Kramer and G.L. Price, Observation of an adsorbed mono-layer by transmission high energy electron diffraction 55 (1976) 373
G. Quentel et R. Kern, Approche théorique par ellipsométrie des constantes optiques de couches monoatomiques physisorbées 55 (1976) 545
G.L. Price and J.A. Venables, A theory of phase transitions in solid krypton and xenon monolayers on graphite 59 (1976) 509
J. Dericbourg, Adsorption de l'oxygène sur le graphite; nouvelle détermination graphique de l'entropie différentielle d'adsorption 59 (1976) 554
J. Dericbourg, Adsorption de l'hydrogene sur le graphite 59 (1976) 565

Hall effect

E. Arnold, Conduction mechanisms in bandtails at the Si–SiO_2 interface 58 (1976) 60
T. Ando, Y. Matsumoto and Y. Uemura, Theory of the Hall effect in a two-dimensional electron system under strong magnetic field (abstract only) 58 (1976) 212
S. Kawaji and J. Wakabayashi, Quantum galvanomagnetic properties of n-type inversion layers on Si(100) MOSFET 58 (1976) 238

Halogen

B. Kasemo and L. Walidén, Photon and electron emission during halogen adsorption on sodium 53 (1975) 393
E.N. Foo and S.G. Davison, Green function theory of chemisorption on sp-hybrid crystals 55 (1976) 274
G.R. Floyd and R.H. Prince, Electron stimulated desorption of fluorine and barium from tungsten 59 (1976) 631

Hydrocarbons

M.A. Chesters and G.A. Somorjai, The chemisorption of oxygen, water and selected hydrocarbons on the (111) and stepped gold surfaces 52 (1975) 21
K. Horn and J. Pritchard, Wavelength modulated infrared reflection–absorption spectroscopy: ethane adsorbed on Cu(110) 52 (1975) 437
K.Y. Yu, W.E. Spicer, I. Lindau, P. Pianetta and S.F. Lin, UPS studies of the bonding of H_2, O_2, CO, C_2H_4 and C_2H_2 on Fe and Cu 57 (1976) 157
B.E. Nieuwenhuys, D.J. Hagen, G. Rovida and G.A. Somorjai, LEED, AES and thermal studies of chemisorbed hydrogen and hydrocarbons (C_2H_2, C_2H_4, C_6H_6, C_6H_{12}) on the (111) and stepped [6(111) × (100)] iridium crystal surfaces; comparison with platinum 59 (1976) 155

Hydrogen

R.C. Baetzold, Calculated model for metal cluster catalysis: H_2 dissociation 51 (1975) 1
E. Bohn and H. Moesta, Optical excitation of adsorbed nitrogen and its reactions with adsorbed hydrogen 51 (1975) 283
F.P. Netzer and G. Kneringer, The adsorption of hydrogen and the reaction of hydrogen with oxygen on Pt(100) 51 (1975) 526
C.R. Helms, K.Y. Yu and W.E. Spicer, Further evidence for equilibrium surface segregation in the Cu–Ni alloys – CO and H_2 chemisorption 52 (1975) 217
R. Duš, Hydrogen adsorption and absorption on evaporated Nb films 52 (1975) 440
R.P.H. Gasser and D.E. Holt, Simultaneous and sequential adsorption of deuterium and nitrous oxide by rhenium 52 (1975) 457
E. Hulpke, Scattering of Li^+ from LEED characterized W(110) and Si(111) surfaces at energies between 2 and 20 eV 52 (1975) 615
M.R. Shanabarger, Chemisorption kinetics of hydrogen on evaporated iron films 52 (1975) 689
R.A. van Santen, Theory of chemisorption of hydrogen on transition metals and their alloys 53 (1975) 35
J.E. Rowe, Anisotropic photoemission and chemisorption-bond geometry on Ge(111) and Si(111) surfaces 53 (1975) 461
J.G. McCarty and R.J. Madix, The adsorption of CO, H_2, CO_2 and H_2O on carburized and graphitized Ni(110) 54 (1976) 121
P.E. Gregory and W.E. Spicer, Photoemission study of the adsorption of O_2, CO and H_2 on GaAs(110) 54 (1976) 229
K. Christmann, G. Ertl and T. Pignet, Adsorption of hydrogen on a Pt(111) surface 54 (1976) 365
R.V. Bucur, V. Mecea and T.B. Flanagan, The kinetics of hydrogen (deuterium) sorption by thin palladium layers studied with a piezoelectric quartz crystal microbalance 54 (1976) 477

U. Garibaldi, A.C. Levi, R. Spadacini and G.E. Tommei, Quantum theory of molecule-surface scattering: rotational transitions 55 (1976) 40
A.P. Janssen and R.C. Schoonmaker, An Auger and reflection electron diffraction investigation of oxygen and hydrogen adsorption on strontium surfaces 55 (1976) 109
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. I. Tight-binding calculations for adsorption on periodic surfaces 55 (1976) 291
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. II. Cluster models for adsorption sites 55 (1976) 313
R. Ducros, J.J. Ehrhardt, M. Alnot and A. Cassuto, Hydrogen and deuterium adsorption on polycrystalline rhenium surfaces; effect of carbon and oxygen coadsorption 55 (1976) 509
S. Gottesfeld, M. Babai and B. Reichman, Combined ellipsometric and reflectometric measurements of surface processes on noble metal electrodes 56 (1976) 373
K.Y. Yu, W.E. Spicer, I. Lindau, P. Pianetta and S.F. Lin, UPS studies of the bonding of H_2, O_2, CO, C_2H_4, and C_2H_2 on Fe and Cu 57 (1976) 157
S. Gottesfeld, M. Babai and B. Reichman, The analysis of surface processes on solid electrons by combined modulated ellipsometric and reflectometric experiments 57 (1976) 251
J.A. Appelbaum, H.D. Hagstrum, D.R. Hamann and T. Sakurai, The effect of disordering on the spectral properties of partial monolayers of H on Si(111) 58 (1976) 479
D.E. Ellis, H. Adachi and F.W. Averill, Molecular cluster theory for chemisorption of first row atoms on nickel (100) surfaces 58 (1976) 497
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Ultraviolet photoelectron spectra from hydrogen adsorbed on Ni(111) and Pd(111) surfaces 58 (1976) 578
I.E. Wachs and R.J. Madix, On the H_2-D_2 exchange on stepped platinum surfaces 58 (1976) 590
I. Lindström and T. DiStefano, Hydrogen induced interfacial polarization at $Pd-SiO_2$ interfaces 59 (1976) 23
A. Gelb and M. Cardillo, Classical trajectory studies of hydrogen dissociation on a Cu(100) surface 59 (1976) 128
R. Duš and W. Lisowski, Studies on the possibility of determination of surface area of palladium films by means of adsorption of hydrogen or oxygen and reciprocal titration of the gases 59 (1976) 141
B.E. Nieuwenhuys, D.J. Hagen, G. Rovida and G.A. Somorjai, LEED, AES and thermal desorption studies of chemisorbed hydrogen and hydrocarbons (C_2H_2, C_2H_4, C_6H_6, C_6H_{12}) on the (111) and stepped [6(111) × (100)] iridium crystal surfaces; comparison with platinum 59 (1976) 155
C.F. Melius, J.W. Moskowitz, A.P. Mortola, M.B. Baillie and M.A. Ratner, A molecular complex model for the chemisorption of hydrogen on a nickel surface 59 (1976) 279
Y. Viswanath, G. Sanders and L.D. Schmidt, Adsorbate densities on (100)W 59 (1976) 297
B.E. Nieuwenhuys, Influence of the surface structure on the adsorption of hydrogen on platinum, as studied by field emission probe-hole microscopy 59 (1976) 430
Robert J. Le Roy, Determining potential energy constants for atom– and molecule–surface interactions 59 (1976) 541
J. Dericbourg, Adsorption de l'hydrogène sur le graphite 59 (1976) 565
R.W. McCabe and L.D. Schmidt, Adsorption of H_2 and CO on clean and

oxidized (110)Pt 60 (1976) 85
J.C. Cavalier and E. Chornet, Hydrogen–deuterium exchange on iron: kinetic anisotropies 60 (1976) 125
T.V. Vorburger, D.R. Sandstrom and B.J. Waclawski, The displacement of hydrogen by carbon monoxide on the (100) face of tungsten: a photoemission and thermal desorption study 60 (1976) 211
K. Christmann and G. Ertl, Interaction of hydrogen with Pt(111): the role of atomic steps 60 (1976) 365
T.N. Rhodin and G. Brodén, Preparation and chemisorptive properties of the clean normal and reconstructed surfaces of Ir(100) – role of multiplets 60 (1976) 466

Hydrogen cyanide

M.E. Bridge, R.A. Marbrow and R.M. Lambert, Adsorption of cyanogen and hydrogen cyanide on Pt(110) and Ag(110) 57 (1976) 415

Hydrogen sulphide

J.M. Wilson, LEED and AES study of the interaction of H_2S and Mo(100) 53 (1975) 330
J.M. Wilson, Growth of sulphide films on Mo(111) 59 (1976) 315

Ice

L.E. Firment and G.A. Somorjai, The surface structures of vapor-grown ice and naphthalene crystals studied by low-energy electron diffraction 55 (1976) 413

Indium

S. Michel, T.T.A. Nguyen and R. Cinti, Adsorption of indium on (100) and (110) silicon substrates 54 (1976) 509
T.T.A. Nguyen, S. Michel and R. Cinti, Mean stay times of indium adatoms on (111) silicon surfaces 54 (1976) 679
O. Nishikawa and A.R. Saadat, Field emission and field ion microscope study of Ga, In and Sn on W: structure, work function, diffusion and binding energy 60 (1976) 301

Indium antimonide

G.J. Russell, RHEED study of the polar {111} surfaces of InSb and GaSb 55 (1976) 380

Indium phosphide

R.H. Williams and I.T. McGovern, Surface characterization of indium phosphide 51 (1975) 14
S.C. Dahlberg, Photovoltage studies of n-type InP(100) 60 (1976) 231

Infrared spectroscopy

R. Ruppin, Surface modes and infrared absorption of coated spheres 51 (1975) 140
K. Horn and J. Pritchard, wavelength modulated infrared reflection–

absorption spectroscopy: ethane adsorbed on Cu(110) 52 (1975) 437
A.M. Bradshaw and F. Hoffmann, IR reflection–absorption spectroscopy of CO adsorbed palladium 52 (1975) 449
J. Pritchard, T. Catterick and R.K. Gupta, Infrared spectroscopy of chemisorbed carbon monoxide on copper 53 (1975) 1
K. Horn and J. Pritchard, Infrared spectrum of CO chemisorbed on Cu(100) 55 (1976) 701
R.W. Stobie, B. Rao and M.J. Dignam, Infrared ellipsometry of adsorbed molecules: CO on evaporated Cu films 56 (1976) 334
J.E. Hulse and M. Moskovits, The interaction of CO with matrix-isolate Ni clusters: a model for CO chemisorbed on Ni 57 (1976) 125
A. Kamgar and P. Kneschaurek, Spectroscopy of surface charge layers on p-type Si (extended abstract) 58 (1976) 135
R.A. Shigeishi and D.A. King, Chemisorption of carbon monoxide on platinum {111}: reflection–adsorption infrared spectroscopy 58 (1976) 379
R. Ruppin, Infrared active modes of dielectric crystallites on a substrate 58 (1976) 550
H.A. Pearce and N. Sheppard, Possible importance of a "metal–surface selection rule" in the interpretation of the infrared spectra of molecules adsorbed on particulate metals; infrared spectra from ethylene chemisorbed on silica-supported metal catalysts 59 (1976) 205

Iodine

K. Jacobi, G. Steinert and W. Ranke, Iodine etching of the GaAs($\bar{1}\bar{1}\bar{1}$)As surface studied by LEED, AES, and mass spectroscopy 57 (1976) 571

Ion bombardment

L. Viel, C. Benazeth et N. Benazeth, Spectres Auger sous bombardement d'ions Ar^+ de 60 keV de quelques éléments purs et de composés binaires 54 (1976) 635
K.S. Kim, W.E. Baitinger and N. Winograd, X-ray photoelectron spectroscopic studies of PbO surfaces bombarded with He^+, Ne^+, Ar^+, Xe^+ and Kr^+ 55 (1976) 285
S. Thomas, AES-ion sputtering analysis and the surface composition of TiO_2 55 (1976) 754
M.A. Hopper, R.A. Clarke and L. Young, Removal of oxide films from silicon surfaces in a high vacuum system: an in situ ellipsometric study 56 (1976) 472
V.E. Henrich, Thermal faceting of (110) and (111) surfaces of MgO 57 (1976) 385
J. Ferrante and S.V. Pepper, Production Ne Auger electrons by Ne^+ bombardment of Mg and Al surfaces 57 (1976) 420
J. Ferrante and S.V. Pepper, Production of Mg and Al Auger electrons by noble gas ion bombardment of Mg and Al surfaces 58 (1976) 613
G. Blaise, Similarities in photon and ion emissions induced by sputtering 60 (1976) 65
S.C. Dahlberg, Photovoltage studies of n-type InP(100) 60 (1976) 231
P.J. Martin, A.R. Bayly, R.J. MacDonald, N.H. Tolk, G.J. Clark and J.C. Kelly, De-excitation processes near the surface of ion bombarded SiO_2 and Si 60 (1976) 349

Ion implantation

J.R. Adams, Complex refractive index and phosphorus concentration profiles in P^+_{31} ion implanted silicon by ellipsometry and Auger electron spectroscopy 56 (1976) 307
R. Kelly and J.B. Sanders, Recoil implantation from a thin source. I. Underlying theory and numerical results 57 (1976) 143

Ion scattering

L.L. Tongson and C.B. Cooper, Mass spectrometric study of the binary approximation in scattering of low energy ions from solid surfaces 52 (1975) 263
E. Hulpke, Scattering of Li^+ from LEED characterized W(110) and Si(111) surfaces at energies between 2 and 20 eV 52 (1975) 615
W. Heiland, F. Iberl, E. Taglauer and D. Menzel, Oxygen adsorption on (110) silver 53 (1975) 383
A. Benninghoven, Developments in secondary ion mass spectroscopy and applications to surface studies 53 (1975) 596
K. Wittmaack, Energy dependence of the secondary ion yield of metals and semiconductors 53 (1975) 626
H.H. Bongersma and T.M. Buck, Selected topics in low-energy ion scattering: surface segregation in Cu/Ni alloys and ion neutralization 53 (1975) 649
M. Cini, A new theory of SIMS at metal surfaces 54 (1976) 71
H.H. Brongersma and J.B. Theeten, The structure of oxygen adsorbed on Ni(001) as determined by ion scattering spectroscopy 54 (1976) 519
D. Fuller, J.S. Colligon and J.S. Williams, The application of correlated SIMS and RBS techniques to the measurement of ion implanted range profiles 54 (1976) 647
B. Poelsema, L.K. Verhey and A.L. Boers, Study of low energy noble gas ion reflection from monocrystalline surfaces; influence of thermal vibrations of the surface atoms. I. Computer simulation of energy and spatial distributions 55 (1976) 445
G.C. Nelson, Determination of the surface versus bulk composition of silver–gold alloys by low energy ion scattering spectroscopy 59 (1976) 310
L. Trilling and A. Hurkmans, The scattering of ions from a clean solid surface in the 1 to 10 eV range 59 (1976) 361
A. Hurkmans, E.G. Overbosch and J. Los, Trapping probabilities and desorption energies of alkali atoms on a clean and an oxygen covered tungsten (110) surface 59 (1976) 488
G. Blaise, Similarities in photon and ion emissions induced by sputtering 60 (1976) 65
P.J. Martin, A.R. Bayly, R.J. MacDonald, N.H. Tolk, G.J. Clark and J.C. Kelly, De-excitation processes near the surface of ion bombarded SiO_2 and Si 60 (1976) 349
B. Poelsema, L.K. Verhey and A.L. Boers, Study of low energy noble gas ion reflection from monocrystalline surfaces; influence of thermal vibrations of the surface atoms. II. Calculational evaluation of the sensitivity for model parameters and possibilities for estimation 60 (1976) 485

Iridium

G.G. Summers and H.N. Southworth, The effect of temperature and electrostatic field on tungsten and iridium field-ion emitters 53 (1975) 583
D.I. Hagen, B.E. Nieuwenhuys, G. Rovida and G.A. Somorjai, Low-energy electron diffraction, Auger electron spectroscopy, and thermal desorption studies of chemisorbed CO and O_2 on the (111) and stepped [6(111) × (100)] iridium surfaces 57 (1976) 632
T. Adachi and S. Nakamura, Field evaporation end form at 4.2 K 59 (1976) 61
B.E. Nieuwenhuys, D.J. Hagen, G. Rovida and G.A. Somorjai, LEED, AES and

thermal desorption studies of chemisorbed hydrogen and hydrocarbons (C_2H_2, C_2H_2, C_6H_6, C_6H_{12}) on the (111) and stepped [6(111) × (100)] iridium crystal surfaces; comparison with platinum 59 (1976) 155
G. Brodén, T.N. Rhodin, C. Brucker, R. Benbow and Z. Hurych, Synchrotron radiation study of chemisorptive bonding of CO on transition metals - polarization effect on Ir(100) 59 (1976) 593
T.N. Rhodin and G. Brodén, Preparation and chemisorptive properties of the clean normal and reconstructed surfaces of Ir(100) – role of multiplets 60 (1976) 466

Iron

E. Bohn and H. Moesta, Optical excitation of adsorbed nitrogen and its reactions with adsorbed hydrogen 51 (1975) 283
E.E. Mola, Theory of the binding energy and of photo-effects for N_2 on Fe 51 (1975) 290
R. Feder, On the measurement of spin polarization in low energy electron diffraction by means of double diffraction 51 (1975) 297
M.P. Hooker and J.T. Grant, Some factors affecting depth profiling measurements using Auger electron spectroscopy 51 (1975) 328
C. Leygraf, G. Hultquist and S. Ekelund, A LEED/AES study of $Fe_{0.84}Cr_{0.16}$(100) and (110) 51 (1975) 409
J.T. Grant, M.P. Hooker and T.W. Haas, Appearance potential spectroscopy: relative signal strengths from 3d transition metals 51 (1975) 433
M.J. Tricker and A.G. Freeman, Application of ^{57}Fe conversion electron Mössbauer spectroscopy to the study of single crystal specimens 51 (1975) 549
C. Nyberg, The reaction of oxygen with Ti, Cr, Fe and Ni studied by appearance potential spectroscopy 52 (1975) 1
A.M. Brown and P.L. Surman, Oxidation of iron within the scanning electron microscope: oxide crystallite growth kinetics during the oxidation of iron in CO_2 52 (1975) 85
S. Andersson and C. Nyberg, Soft X-ray appearance potential spectroscopy of C, N, O, and S chemisorbed on some 3d transition metals 52 (1975) 489
R.W. Revie, J. O'M. Bockris and B.G. Baker, The degraded passive film on iron – an application of Auger electron spectroscopy 52 (1975) 664
M.R. Shanabarger, Chemisorption kinetics of hydrogen on evaporated iron films 52 (1975) 689
C. Lea and M.P. Seah, Site competition in surface segregation 53 (1975) 272
R.O. Jones, P.J. Jennings and G.S. Painter, Cluster calculations of the electronic structure of transition metal surfaces 53 (1975) 409
M.C. Desjonquères and F. Cyrot-Lackmann, Electronic surface states in cleaved transition metals 53 (1975) 429
H.D. Shih, K.O. Legg and F. Jona, Interfacial and plasmon-decay peaks in the Auger spectra of titanium and iron 54 (1976) 355
K. Kunimori, T. Kawai, T. Kondow, T. Onishi and K. Tamaru, Chemical effects of the nitrogen K-LL Auger spectra of chemisorbed N_2 on Fe and Mo surfaces 54 (1976) 525
K. Wandelt and G. Ertl, Electron spectroscopic studies of the oxidation of Fe/Ni alloys 55 (1976) 403
J. Kruger and J.R. Ambrose, Qualitative use of ellipsometry to study localized corrosion processes 56 (1976) 394

G. Gafner and R. Feder, A low-energy electron diffraction study of Fe(110). I. Experimental 57 (1976) 37
R. Feder and G. Gafner, A low-energy electron diffraction study of Fe(110). II. Theory and comparison with the experiment 57 (1976) 45
K.Y. Yu, W.E. Spicer, I. Lindau, P. Pianetta and S.F. Lin, UPS studies of the bonding of H_2, O_2, CO, C_2H_4, and C_2H_2 on Fe and Cu 57 (1976) 157
D. Aberdam, R. Baudoing, E. Blanc and C. Gaubert, Theory of angular dependence in electron emission from surfaces; application to Auger emission from several metal surfaces 57 (1976) 306
W.G. Dorfeld, J.B. Hudson and R. Suhr, The interaction of an O_2 molecular beam with an Fe(110) surface 57 (1976) 460
C.W. Price and J.P. Hirth, Surface energy and surface stress tensor in an atomistic model 57 (1976) 509
C.F. Brucker and T.N. Rhodin, Oxygen chemisorption and reaction on α-Fe(100) using photoemission and low-energy electron diffraction 57 (1976) 523
V.T. Cherepin, A.A. Kosyachkov and M.A. Vasilyev, Effect of initial ion bombardment and oxidation on emission of secondary ions 58 (1976) 609
J.C. Cavalier and E. Chornet, Hydrogen–deuterium exchange on iron: kinetic anisotropies 60 (1976) 125
W. Losch and A.J. Monhemius, An AES study of a copper–iron sulphide mineral 60 (1976) 196

Iron chloride

F. Millot, Adsorption du krypton sur le chlorure ferrique et contribution à l'énergie d'adsorption des interactions cation–adsorbat 55 (1976) 717

Iron oxide

A.M. Brown and P.L. Surman, Oxidation of iron within the scanning electron microscope: oxide crystallite growth kinetics during the oxidation of iron in CO_2 52 (1975) 85

Lanthanide chalcogenides

D. Castiel, Surface magnons and surface magnetic structures; an application to Eu chalcogenides 60 (1976) 24

Lead

C. Argile and G.E. Rhead, Calibration in Auger electron spectroscopy by means of coadsorption 53 (1975) 659
J.B. Brosse, J.M. Bermond et M. Drechsler, Une mesure directe de la modification de l'énergie de liaison sous l'influence d'un champ électrique; Pb/(111)W 54 (1976) 683
K.S. Kim, W.E. Baitinger and N. Winograd, X-ray photoelectron spectroscopic studies of PbO surfaces bombarded with He^+, Ne^+, Ar^+, Xe^+ and Kr^+ 55 (1976) 285
A. Bewick and J. Robinson, Optical studies of the electrode–electrolyte solution interphase using reflectance methods. II. The electroreflectance effect at a lead electrode 55 (1976) 349

Lead oxide

K.S. Kim, W.E. Baitinger and N. Winograd, X-ray photoelectron spectroscopic studies of PbO surfaces bombarded with He^+, Ne^+, Ar^+, Xe^+ and Kr^+ 55 (1976) 285

Light scattering

D. Heitmann and H. Raether, Light emission of nonradiative surface plasmons from sinusoidally modulated silver surfaces 59 (1976) 17

Low energy electron diffraction (LEED)

R.H. Williams and I.T. McGovern, Surface characterization of indium phosphide 51 (1975) 14
L.J. Brillson, Observation of extrinsic surface states on $(11\bar{2}0)$CdS 51 (1975) 45
S. Sinharoy and M. Henzier, Binding states of water vapor on cleaved germanium 51 (1975) 75
U. Landman and D.L. Adams, Study of the transform–deconvolution method for surface structure determination. I. Application to Al(100) 51 (1975) 149
J. Bandet, L. Touzillier, A. Malavaud et Y. Quemener, Etude d'une surface de NaCl(100) par diffraction inélastique d'électrons lents 51 (1975) 174
G. Rovida and F. Pratesi, Chlorine monolayers on the low-index faces of silver 51 (1975) 270
R. Feder, On the measurement of spin polarization in low energy electron diffraction by means of double diffraction 51 (1975) 297
S. Mróz, LEED studies of thermal vibrations of atoms on the (111) nickel surface by the alternating current method 51 (1975) 365
C. Leygraf, C. Hultquist and S. Ekelund, A LEED/AES study of $Fe_{0.84}Cr_{0.16}$(100) and (110) 51 (1975) 409
A.G. Elliot, The condensation of gold into tantalum (100) single crystal surfaces: LEED, AES analysis 51 (1975) 489
F.P. Netzer and G. Kneringer, The adsorption of hydrogen and the reaction of hydrogen with oxygen on Pt(100) 51 (1975) 526
C. Benndorf, J. Kessler und F. Thieme, Zur Isomorphie und Reinheit von auf Cu(111)-Oberflächen aufgedampften Kupfer 51 (1975) 553
M.A. Chesters and G.A. Somorjai, The chemisorption of oxygen, water and selected hydrocarbons on the (111) and stepped gold surfaces 52 (1975) 21
C.A. Papageorgopoulos and J.M. Chen, Coadsorption of cesium and oxygen on Ni(100). I. Cesium probing of Ni–O bonding 52 (1975) 40
C.A. Papageorgopoulos and J.M. Chen, Coadsorption of cesium and oxygen in Ni(100). II. Cesium enhanced chemisorption and oxidation 52 (1975) 53
T. Engel, H. Niehus and E. Bauer, Adsorption of oxygen on W(110). I. The p(2 × 1) structure 52 (1975) 237
B.W. Lee and P. Mark, Effect of Bragg–Williams disorder on reconstructed polar surfaces of tetrahedrally coordinated compound semiconductors by optically simulated LEED patterns 52 (1975) 285
F.J. Szalkowski and G.A. Somorjai, Comments on "The use of X-ray photoelectron and Auger spectroscopy to determine the surface composition of oxidised vanadium" by C.R. Brundle 52 (1975) 431
F.P. Netzer and M. Prutton, Charge trapping in NiO surfaces during LEED observations 52 (1975) 505

G. Rovida and F. Pratesi, Chemisorption of oxygen on the silver (110) surface 52 (1975) 542
K. Besocke and H. Wagner, LEED studies on stepped W surfaces 52 (1975) 653
J.M. McDavid and S.C. Fain, Jr., LEED using a CMA 52 (1975) 670
M.A. Van Hove and S.Y. Tong, Possible Ni(001) surface expansion due to carbon chemisorption predicted by LEED calculations 52 (1975) 673
F.P. Netzer, Adsorption of cyanogen on Pt(100) 52 (1975) 709
B.J. Hopkins, G.D. Watts and A.R. Jones, The adsorption of oxygen on tungsten (100) – temperature effects 52 (1975) 715
J.J. McCarroll, Surface physics and catalysis 53 (1975) 297
B. Lang, A LEED study of the deposition of carbon on platinum crystal surfaces 53 (1975) 317
J.M. Wilson, LEED and AES study of the interaction of H_2S and Mo(100) 53 (1975) 330
H. Papp and J. Pritchard, The adsorption of Xe and CO on a Cu(311) single crystal surface 53 (1975) 371
W. Heiland, F. Iberl, E. Taglauer and D. Menzel, Oxygen adsorption on (110) silver 53 (1975) 383
P.A. Taylor, R. Leysen and B.J. Hopkins, Some properties of clean and alkali metal covered ZnO surfaces (abstract only) 53 (1975) 500
P.M. Marcus, J.E. Demuth and D.W. Jepsen, Determination of the structure of ordered adsorbed layers by analysis of LEED spectra 53 (1975) 501
S.Y. Tong, J.B. Pendry and L.L. Kesmodel, A study of ion-core potentials used in low-energy electron diffraction calculations 54 (1976) 21
M.A. Van Hove and S.Y. Tong, Surface structures of W(110) and W(100) faces by the dynamical LEED approach 54 (1976) 91
T.E. Felter and P.J. Estrup, Model of β-CO on Mo(100): dissociative adsorption 54 (1976) 179
J.G. McCarty and R.J. Madix, Formic acid desorption from graphitized Ni(110) 54 (1976) 210
M. Van Hove, S.Y. Tong and N. Stoner, Perturbation calculations of the c(2 × 2) sodium overlayer structure on Al(C01) 54 (1976) 259
T.N. Taylor, C.A. Colmenares, R.L. Smith and G.A. Somorjai, The thorium (100) crystal face; a study of its cleaning, surface structure, and onteraction with oxygen and carbon monoxide 54 (1976) 317
K. Christmann, G. Ertl and T. Pignet, Adsorption of hydrogen on a Pt(111) surface 54 (1976) 365
B.A. Hutchins, T.N. Rhodin and J.E. Demuth, Surface crystallography of the c(2 × 2) sodium overlayer on Al(100) 54 (1976) 419
A. Mosser, Ch. Burggraf, S. Goldsztaub and Y.H. Ohtsuki, LEED Kikuchi pattern: phonon and plasmon contributions 54 (1976) 580
H.M. Kramer and J. Suzanne, Adsorption of krypton on the basal plane of graphite: LEED and Auger measurements 54 (1976) 659
R.H. Roberts and J. Pritchard, Monolayer structures of Kr and Xe on Ag(111) and Cu(211) 54 (1976) 687
E. Gillet, J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
L. Peralta, Y. Berthier and J. Oudar, Adsorption of sulphur on the (110) face of molybdenum 55 (1976) 199
R. Ducros and R.P. Merrill, The interaction of oxygen with Pt(110) 55 (1976) 227
J.P. Bibérian and M. Huber, A model of structures of monolayers adsorbed on

(100) faces of metals; a comparative study of various systems in the high symmetry coincidence mesh hypothesis 55 (1976) 259
V.S. Sundaram and W.D. Robertson, Temperature dependence of specular and non-specular LEED beams from Cu_3Au 55 (1976) 324
W. Göpel and G. Neuenfeldt, Debye temperatures and step arrays of ZnO($10\bar{1}0$) surface determined by LEED 55 (1976) 362
L.E. Firment and G.A. Somorjai, The surface structures of vapor-grown ice and naphthalene crystals studies by low-energy electron diffraction 55 (1976) 413
L.N. Surnev, A desorption of sodium and its effect upon some electric properties of clean germanium (111) surfaces 55 (1976) 625
R.E. Kirby, C.S. McKee and M.W. Roberts, Low temperature oxygen and activated nitrogen faceting of Ni (210) surfaces 55 (1976) 725
G. Gafner and R. Feder, A low-energy electron diffraction study of Fe(110). I. Experimental 57 (1976) 37
R. Feder and G. Gafner, A low-energy electron diffraction study of Fe(110). II. Theory and comparison with the experiment 57 (1976) 45
E.G. McRae and C.W. Caldwell, Elastic-scattering resonances observed in very low energy electron reflection at oxygenated Ni(100) surfaces 57 (1976) 63
E.G. McRae and C.W. Caldwell, Very low energy electron reflection at Cu(001) surfaces 57 (1976) 77
A.J. van Bommel and J.E. Crombeen, LEED, Auger electron spectroscopy (AES) and photoemission studies of the adsorption of cesium on the epitaxially grown GaAs(110) surface 57 (1976) 109
B.J. Hopkins, A.R. Jones and R.I. Winton, An AES, LEED and work function study of CO_2 adsorption on W(100) 57 (1976) 266
V.E. Henrich, Thermal faceting of (110) and (111) surfaces of MgO 57 (1976) 385
M.E. Bridge, R.A. Marbrow and R.M. Lambert, Adsorption of cyanogen and hydrogen cyanide on Pt(110) and Ag(110) 57 (1976) 415
J.J. Burton, C.R. Helms and R.S. Polizzotti, Surface segregation in alloys: existence of ordered overlayers of Au segregation to the Ni(111) surface 57 (1976) 425
A.J. van Bommel and J.E. Crombeen, Experimental determination of the correlation between the LEED pattern and the Ga–As bond vectors in the surface of GaAs(001) 57 (1976) 437
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Adsorption of CO on clean and oxygen covered Ni(111) surfaces 57 (1976) 475
P.D. Reed and R.M. Lambert, Surface crystallography, adsorbate structure, adsorption kinetics and surface reactivity – carbon suboxide (C_3O_2) on Pt(110) 57 (1976) 485
C.F. Brucker and T.N. Rhodin, Oxygen chemisorption and reaction on α-Fe(100) using photoemission and low-energy electron diffraction 57 (1976) 523
K. Jacobi, S. Steinert and W. Ranke, Iodine etching of the GaAs($\bar{1}\bar{1}\bar{1}$)As surface studied by LEED, AES, and mass spectroscopy 57 (1976) 571
H.A. Engelhardt and D. Menzel, Adsorption of oxygen on silver single crystal surfaces 57 (1976) 591
C.M. Comrie, W.H. Weinberg and R.M. Lambert, The adsorption of nitric oxide on Pt(110) surfaces 57 (1976) 619
D.I. Hagen, B.E. Nieuwenhuys, G. Rovida and G.A. Somorjai, Low-energy electron diffraction, Auger electron spectroscopy, and thermal desorption studies of chemisorbed CO and O_2 on the (111) and stepped [6(111) × (100) iridium surfaces 57 (1976) 632
D. Aberdam, R. Baudoing, C. Gaubert and E.G. McRae, A LEED data reduc-

tion method – description and application to the relaxation of aluminum (001) and (110) surfaces 57 (1976) 715
P.J. Cohen, J. Unguris and M.B. Webb, Xe monolayer adsorption on Ag(111). I. Structural properties 58 (1976) 429
E. Bauer, H. Poppa and Y. Viswanath, Adsorption of oxygen on W(100): adsorption kinetics and structure 58 (1976) 517
R. Pauling and J.A. Ramsey, On the high temperature limit Debye model in LEED 58 (1976) 575
J.B. Theeten and F. Hottier, On the role of chlorine in the vapour phase epitaxy of (100)GaAs as evidenced by LEED and RHEED 58 (1976) 583
P.D. Reed, C.M. Comrie and R.M. Lambert, Chemisorption, surface structural chemistry, and electron impact properties of carbon monoxide on Ru(101) 59 (1976) 33
B.E. Nieuwenhuys, D.J. Hagen, G. Rovida and G.A. Somorjai, LEED, AES and thermal desorption studies of chemisorbed hydrogen and hydrocarbons (C_2H_2, C_2H_4, C_6H_6, C_6H_{12}) on the (111) and stepped (6(111) × (100)] iridium crystal surfaces; comparison with platinum 59 (1976) 155
M. Auboiroux, D. Marchand, P. Tougne, A.P. Legrand and J.C. Thuillier, Non-symmetrical (1210) planes of tellurium correlated to the non-symmetrical epitaxy of selenium deposited on these faces 59 (1976) 218
J.P. Biberian, Another model for the condensation of gold on tantalum (100) 59 (1976) 307
J.M. Wilson, Growth of sulphide films on Mo(111) 59 (1976) 315
W.N. Unertl and M.B. Webb, Surface parameters of clean nickel (001) determined by LEED averaging 59 (1976) 373
C. Guillot, R. Riwan and J. Lecante, Dissociation of CO on Mo(100) 59 (1976) 581
A. Glachant, J.P. Coulomb and J.P. Biberian, AES and LEED studies of xenon adsorption on (100)NaCl 59 (1976) 619
J. Bandet, A. Malavaud et A. Oustry, Etude par diffraction d'électrons lents d'une surface (100) de NaCl perturbée par l'irradiation électronique incidente 60 (1976) 147
L.Y.L. Shen, Energy loss spectra, Auger spectra and high energy electron diffraction of A-15 superconductors 60 (1976) 239
K. Christmann and G. Ertl, Interaction of hydrogen with Pt(111): the role of atomic steps 60 (1976) 365
G. McElhiney and J. Pritchard, The adsorption of Xe and CO on Au(100) 60 (1976) 397
H.D. Shih, F. Jona, D.W. Jepsen and P.M. Marcus, Atomic underlayer formation during the reaction of Ti{0001} with nitrogen 60 (1976) 445
T.N. Rhodin and G. Brodén, Preparation and chemisorptive properties of the clean normal and reconstructed surfaces of Ir(100) – role of multiplets 60 (1976) 466
G.L. Price, B.A. Sexton and B.G. Baker, The chemisorption of nitric oxide on (110) nickel studied by LEED, AES and thermal desorption 60 (1976) 506

Magnesium

S.A. Flodström, G.V. Hansson, S.B.M. Hagström and J.E. Endriz, Photoemission with polarized light from free-electron and transition metals 53 (1975) 156
L. Viel, C. Benazeth et N. Benazeth, Spectres Auger sous bombardement d'ions Ar^+ de 60 keV de quelques éléments purs et de composés binaires 54 (1976) 635

Magnesium oxide

A. Mosser, Ch. Burggraf, S. Goldsztaub and Y.H. Ohtsuki, LEED Kikuchi pattern: phonon and plasmon contributions 54 (1976) 580

J. Ferrante and S.V. Pepper, Production of Ne Auger electrons by Ne^+ bombardment of Mg and Al surfaces 57 (1976) 420
J. Ferrante and S.V. Pepper, Production of Mg and Al Auger electrons by noble gas ion bombardment of Mg and Al surfaces 58 (1976) 613

Magnesium oxide

A.P. Janssen, Electron stimulated desorption of sodium and measurement of surface diffusion on MgO {001} by Auger spectroscopy 52 (1975) 230
M. Salmerón, A.M. Baró and J.M. Rojo, Interatomic Auger processes and the density of states 53 (1975) 689
T.S. Chen, G.P. Allsredge and F.W. de Wette, Studies of vibrational surface modes in ionic crystals. II. Surface enhancement of the thermal mean-square amplitudes for the (001) face of LiF, MgO, NaF, NaCl, NaI, RbF, and RbCl 57 (1976) 25
V.E. Henrich, Thermal faceting of (110) and (111) surfaces of MgO 57 (1976) 385

Magnetic measurements

B. Caroli, Field-emission in the presence of a magnetic field 51 (1975) 237
S.J. Gurman and J.B. Pendry, Ferromagnetic surface states of antiferromagnetic nickel sulphide 57 (1976) 241
T. Ando, Y. Matsumoto and Y. Uemura, Theory of the Hall effect in a two-dimensional electron system under strong magnetic field (abstract only) 58 (1976) 212
A.A. Lakhani, T.K. Lee and J.J. Quinn, Dependence on substrate bias of the effective mass and Dingle temperature of electrons in the surface inversion layer of silicon 58 (1976) 213
Th. Englert and G. Landwehr, Magneto-transport properties of silicon inversion layers at low carrier densities 58 (1976) 217
R.R. Gerhardts, Cumulant approach to the two-dimensional magneto-conductivity problem 58 (1976) 227
K. Hess, Magnetoresistance of n-silicon inversion layers in the ohmic and in the hot-electron range 58 (1976) 235
S. Kawaji and J. Wakabayashi, Quantum galvanomagnetic properties of n-type inversion layers on Si(100) MOSFET 58 (1976) 238
H. Schneck and G. Wedler, Oscillations of the galvanomagnetic properties of evaporated nickel films due to the adsorption of carbon monoxide 58 (1976) 597
D. Castiel, Surface magnons and surface magnetic structures; an application to Eu chalcogenides 60 (1976) 24

Mass spectroscopy

T. Sakurai and E.W. Müller, Field evaporation experiments with a magnetic sector atom-probe FIM 51 (1975) 38
R.P.H. Gasser, G.V. Jackson and F.E. Rolling, The decomposition of methanol on tungsten 52 (1975) 199
L.L. Tongson and C.B. Cooper, Mass spectrometric study of the binary approximation in scattering of low energy ions from solid surfaces 52 (1975) 263
B. Weber, J.L. Philippart et A. Cassuto, Interactions du chlore sous basse pression avec le tantale à haute température 52 (1975) 311
Y. Shapira, S.M. Cox and D. Lichtman, Chemisorption, photodesorption and

conductivity measurements on ZnO surfaces 54 (1976) 43
S. Michel, T.T.A. Nguyen and R. Cinti, Adsorption of indium on (100) and (110) silicon substrates 54 (1976) 509
J.Y. Caradec, J.L. Philippart, B. Weber et A. Cassuto, Etude par spectrométrie de masse en vision directe des interactions sous basse pression du pentachlorure de tantale avec le tantale à haute température 54 (1976) 593
E. Gillet, J.C. Chiarena et M. Gillet, Etude par spectrométrie Auger et par spectrométrie de masse de la chimisorption de l'oxyde de carbone sur le molybdène polycristallin 54 (1976) 601
S.M. Cox and D. Lichtman, Photodesorption from TiO_2 54 (1976) 675
E. Gillet, J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
M. Alnot, J. Fusy et A. Cassuto, Etude de l'interaction à température ordinaire du monoxyde de carbone gazeux avec de l'oxygene adsorbé sur platine polycristallin 57 (1976) 651
D.G. Löffler and L.D. Schmidt, Kinetics of NH_3 decomposition on single crystal planes of Pt 59 (1976) 195
J.C. Cavalier and E. Chornet, Hydrogen–deuterium exchange on iron: kinetic anisotropies 60 (1976) 125

Mercury

K. Bobev and Z. Mireva, Study of mercury surface diffusion on tantalum with and without an electric field by means of a field emission microscope 51 (1975) 513
W.F. Egelhoff, Jr., D.L. Perry and J.W. Linnett, The adsorption of mercury on tungsten (100) studied by ultra-violet photoelectron spectroscopy 54 (1976) 670
L. Ernst, Comments on "Study of mercury surface diffusion on tantalum with and without an electric-field by means of a field emission microscope" by K. Bobev and Z. Mireva 57 (1976) 449

Metals

R.C. Baetzold, Calculated model for metal cluster catalysis: H_2 dissociation 51 (1975) 1
T. Sakurai and E.W. Müller, Field evaporation experiments with a magnetic sector atom-probe FIM 51 (1975) 38
D.M. Kolb and H. Gerischer, Further aspects concerning the correlation between underpotential deposition and work function differences 51 (1975) 323
J.T. Grant, M.P. Hooker and T.W. Haas, Appearance potential spectroscopy: relative signal strengths from 3d transition metals 51 (1975) 433
P.D. Prabhawalkar, V.S. Raghunathan and S. Ranganathan, Computer simulation of field-ion images from interstitial alloys 51 (1975) 441
E. Fromm, Mechanism of chemisorption and interface penetration in reactive systems at low temperatures 52 (1975) 401
R.A. van Santen, Theory of chemisorption of hydrogen on transition metals and their alloys 53 (1975) 35
M.P. Seah, Interface adsorption, embrittlement and fracture in metallurgy – a review 53 (1975) 168
M.J. Southon, E.D. Boyes, P.J. Turner and A.R. Waugh, Some applications of field-ionization and field-evaporation techniques in the study of surfaces 53 (1975) 554

K. Wittmaack, Energy dependence of the secondary ion yield of metals and semiconductors 53 (1975) 626
M. Gettings and J.P. Coad, A preliminary study of pure metal surfaces using Auger electron spectroscopy (AES), X-ray photoelectron spectroscopy (XPS) and secondary ion mass spectroscopy (SIMS) 53 (1975) 636
W. Ho, S.L. Cunningham and W.H. Weinberg, Single atom chemisorption on a bcc metal 54 (1976) 139
J.W. Schultze and D. Dickertmann, Potentiodynamic desorption spectra of metallic monolayers of Cu, Bi, Pb, Tl and Sb adsorbed at (111), (100), and (110) planes of gold electrodes 54 (1976) 489
J.P. Bibérian and M. Huber, A model of structures of monolayers adsorbed on (100) faces of metals; a comparative study of various systems in the high symmetry coincidence mesh hypothesis 55 (1976) 259
F.K. Schulte, A theory of thin metal films: electron density, potentials and work function 55 (1976) 427
B. Djafari-Rouhani, L. Dobrzynski et G. Allan, Sur l'entropie de vibration des défauts dans l'approximation d'Einstein 55 (1976) 663
E. Miyazaki and I. Yasumori, An evaluation of heats of chemisorption of gases by an empirical method 55 (1976) 747
P.C.S. Hayfield, Ellipsometry as an aid in studying metallic corrosion problems 56 (1976) 488
R. Kelly and J.B. Sanders, Recoil implantation from a thin source. I. Underlying theory and numerical results 57 (1976) 143
T. Matsunaga and Y. Tamai, Calculation of the dispersion force component of the surface energy of some solid metals 57 (1976) 431
E. Miyazaki and I. Yasumori, Chemisorption of O_2 and NO molecules on transition d-metals 57 (1976) 755
E.G. McRae, Calculation of absorptive potentials for low energy electron scattering from optical data for solid Mg, Al, Cu, Ag, Au, Bi, C and Al_2O_3 57 (1976) 761
E. Fromm, O. Mayer and W. Nickerson, Interrelation between thickness of oxygen and nitrogen chemisorption layers and thermochemical data 57 (1976) 775
N.R. Burke, A tight-binding theory of the interaction between transition metal adatoms adsorbed on a transition metal substrate 58 (1976) 349
L.J. Brillson and G.P. Ceasar, X-ray photoionization cross sections for quantitative analysis 58 (1976) 457
J.P. Muscat, Response function for a finite step potential 58 (1976) 557
H.A. Pearce and N. Sheppard, Possible importance of a "metal–surface selection rule" in the interpretation of the infrared spectra of molecules adsorbed on particulate metals; infrared spectra from ethylene chemisorbed on silica-supported metal catalysts 59 (1976) 205
D. Castiel, L. Dobrzynski and D. Spanjaard, Surface phonons and superstructures – an application: transition metals 59 (1976) 252
L.M. Kahn and S.C. Ying, A model for alkali chemisorption 59 (1976) 333
G. Doyen, Semiempirical model calculations for chemisorption on transition metals. I. Exact solution and discussion of a simple model 59 (1976) 461
G. Brodén, T.N. Rhodin, C. Brucker, R. Benbow and Z. Hurych, Synchrotron radiation study of chemisorptive bonding of CO on transition metals – polarization effect on Ir(100) 59 (1976) 593
G. Blaise, Similarities in photon and ion emissions induced by sputtering 60 (1976) 65
D.L. Begley, D.A. Bryan, R.W. Alexander, R.J. Bell and C.A. Goben, Propagation distances of surface electromagnetic waves on Ni, Pd,

Pt, and W. metal surfaces 60 (1976) 99
F.W. de Wette and L. Kleinman, A new lattice sum for use in obtaining self-consistent warped-muffin-tin potentials in metal films 60 (1976) 255

Metal–oxide–semiconductor structure (MOS)

Y. Uemura, Theoretical considerations on quantization for carriers in MOS structures 58 (1976) 1
T. Cole, A.A. Lakhani and P.J. Stiles, Fine structure in the field effect mobility of MOS transistors 58 (1976) 56
A. Hartstein and A.B. Fowler, Oxide-charge-induced impurity band silicon inversion layers (abstract only) 58 (1976) 71
M.E. Sjöstrand, T. Cole and P.J. Stiles, Low temperature saturation of the channel conductivity in silicon inversion layers 58 (1976) 72
S. Pollitt, M. Pepper and C.J. Adkins, The Anderson transition in silicon inversion layers 58 (1976) 79
T. Cole, M.E. Sjöstrand and P.J. Stiles, Activated channel conductivity in silicon inversion layers at high temperatures 58 (1976) 91
S. Aymeloglu and J.N. Zemel, Field effect studies on n-channel (100) MOSFET's at 4.2 to 77 K 58 (1976) 98
J.F. Koch, Spectroscopy of surface space charge layers 58 (1976) 104
C.C. Shiue and C.T. Sah, Studies of electron screening effects on the electron mobility in silicon surface inversion layers 58 (1976) 153
K.W. Chiu, T.K. Lee and J.J. Quinn, Infrared magneto-transmittance of a two-dimensional electron gas (extended abstract) 58 (1976) 182
T.A. Kennedy, R.J. Wagner, B.D. McCombe and D.C. Tsui, Frequency dependent effective masses in Si inversion layers at metallic densities 58 (1976) 185
A.A. Lakhani and P.J. Stiles, Effect of substrate bias on the mobility and scattering time of electrons in Si inversion layers 58 (1976) 193
R.J. Wagner, T.A. Kennedy, B.D. McCombe and D.C. Tsui, Frequency dependence of cyclotron resonance in Si inversion layers in the region of activated conductivity 58 (1976) 207
Th. Englert and G. Landwehr, Magneto-transport properties of silicon inversion layers at low carrier densities 58 (1976) 217
S. Kawaji and J. Wakabayashi, Quantum galvanomagnetic properties of n-type inversion layers on Si(100) MOSFET 58 (1976) 238
T. Neugebauer, K. von Klitzing, G. Landwehr and G. Dorda, Quantum oscillations in (110) and (111) n-channel MOSFET's (extended abstract) 58 (1976) 261

Methane

R.A. Shigeishi, Adsorption of methane on a tungsten field emitter 51 (1975) 377

Methanol

R.P.H. Gasser, G.V. Jackson and R.E. Rolling, The decomposition of methanol on tungsten 52 (1975) 199
R.P.H. Gasser and D.E. Holt, The decomposition of methanol at low pressures by rhenium 55 (1976) 690

Mica

I.G. Higginbotham, R.H. Williams and A.J. McEvoy, Adhesion at gold–mica interfaces (abstract only) 53 (1975) 581

Microwave spectroscopy

J.F. Koch, Spectroscopy of surface space charge layers 58 (1976) 104

Molecular beam studies

J.A. Meyers and D.R. Fankl, Selective adsorption of ^{4}He clean LiF(001) surfaces 51 (1975) 61
C.R. Helms and R.J. Madix, Molecular beam relaxation spectrometry (MCRS) measurement of the desorption rate constant for CO on Ni(110) 52 (1975) 677
S.P. Singh-Boparai, M. Bowker and D.A. King, Crystallographic anisotropy in chemisorption: nitrogen on tungsten single crystal planes 53 (1975) 55
W.G. Dorfeld, J.B. Hudson and R. Zuhr, The interaction of an O_2 molecular beam with an Fe(110) surface 57 (1976) 460
K. Jacobi, G. Steinert and W. Ranke, Iodine etching of the GaAs($\bar{1}\bar{1}\bar{1}$) As surface studied by LEED, AES, and mass spectroscopy 57 (1976) 571
D.R. Dion and J.D. Doll, Semiclassical theory of atom/solid surface collisions: solution of Steele's model 58 (1976) 415

Molybdenum

T. Sakata and S. Nakamura, Surface diffusion of molybdenum atoms on tungsten surfaces 51 (1975) 313
J.T. Grant, M.P. Hooker and T.W. Haas, Spectrum subtraction techniques in Auger electron spectroscopy 51 (1975) 318
S.A. Flodström, G.V. Hansson, S.B.M. Hagström and J.E. Endriz, Photoemission with polarized light from free-electron and transition metals 53 (1975) 156
J.M. Wilson, LEED and AES study of the interaction of H_2S and Mo(100) 53 (1975) 330
T.E. Felter and R.J. Estrup, Model of β-CO on Mo(100): dissociative adsorption 54 (1976) 179
K. Kunimori, T. Kawai, T. Kondow, T. Onishi and K. Tamaru, Chemical effects of the nitrogen K-LL Auger spectra of chemisorbed N_2 on Fe and Mo surfaces 54 (1976) 525
F.E. Domann, A radiotracer study of slow electron interaction with CO on polycrystalline Mo 54 (1976) 529
E. Gillet, J.C. Chiarena et M. Gillet, Etude par spectrométrie Auger et par spectrométrie de masse de la chimisorption de l'oxyde de carbone sur le molybdène polycristallin 54 (1976) 601
E. Gillet, J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
L. Peralta, Y. Berthier and J. Oudar, Adsorption of sulphur on the (110) face of molybdenum 55 (1976) 199
Vu Thien Binh, R. Uzan et M. Drechsler, Une détermination du coefficient d'auto-diffusion de surface du molybdène 57 (1976) 118
A. Boateng and G. Meyrick, Field ion microscopic observations of the forma-

tion of molybdenum films epitaxially related to tungsten substrates 57 (1976) 205
J.M. Wilson, Energy loss spectroscopy of sulphide films on Mo(100) 57 (1976) 499
J.M. Wilson, Growth of sulphide films on Mo(111) 59 (1976) 315
M. Blaszczyzyszyn, Work function of adsorption systems potassium on tantalum and on molybdenum 59 (1976) 533
C. Guillot, R. Riwan and J. Lecante, Dossociation of CO on Mo(100) 59 (1976) 581
Vu Thien Binh, R. Uzan and M. Drechsler, A determination of the rate and heat of evaporation by measuring the radius variations of a metal tip 60 (1976) 13

Mössbauer spectroscopy

M.J. Tricker and A.G. Freeman, Application of ^{57}Fe conversion electron Mõssbauer spectroscopy to the study of single crystal specimens 51 (1975) 549
S. Bukshpan, T. Sonnino and J.G. Dash, Debye–Waller factor of molecules adsorbed on graphite 52 (1975) 466

Naphthalene

L.E. Firment and G.A. Somorjai, The surface structures of vapor-grown ice and naphthalene crystals studied by low-energy electron diffraction 55 (1976) 413

Nickel

R.C. Baetzold, Calculated model for metal cluster catalysis: H_2 dissociation 51 (1975) 1
S. Mróz, LEED studies of thermal vibrations of atoms on the (111) nickel surface by the alternating current method 51 (1975) 365
J.T. Grant, M.P. Hooker and T.W. Haas, Appearance potential spectroscopy: relative signal strengths from 3d transition metals 51 (1975) 433
R.J. Madix and J.L. Falconer, Surface stabilized reaction intermediate: formic anhydride 51 (1975) 546
C. Nyberg, The reaction of oxygen with Ti, Cr, Fe and Ni studied by appearance potential spectroscopy 52 (1975) 1
C.A. Papageorgopoulos and J.M. Chen, Coadsorption of cesium and oxygen on Ni(100). I. Cesium probing of Ni–O bonding 52 (1975) 40
C.A. Papageorgopoulos and J.M. Chen, Coadsorption of cesium and oxygen on Ni(100). II. Cesium enhanced chemisorption and oxidation 52 (1975) 53
M. Cini, Alkali atom chemisorption on small metal particles 52 (1975) 75
C.R. Helms, K.Y. Yu and W.E. Spicer, Further evidence for equilibrium surface segregation in the Cu–Ni alloys – CO and H_2 chemisorption 52 (1975) 217
B.G. Baker and B.A. Sexton, Electron beam effects in Auger analysis of physisorbed xenon 52 (1975) 353
S. Andersson and C. Nyberg, Soft X-ray appearance potential spectroscopy of C, N, O, and S chemisorbed on some 3d transition metals 52 (1975) 489
M.A. Van Hove and S.Y. Tong, Possible Ni(001) surface expansion due to carbon chemisorption predicted by LEED calculations 52 (1975) 673
C.R. Helms and R.J. Madix, Molecular beam relaxation spectrometry (MBRS) measurement of the desorption rate constant for CO on Ni(110) 52 (1975) 677
M. Ono, H. Shimizu and K. Nakayama, Reply to Comments on "Quantitative Auger analysis of copper–nickel alloy surfaces after argon ion bombardment" 52 (1975) 681
H.J. Mathieu and D. Landolt, Quantitative Auger electron spectroscopy anal-

ysis of Ag–Pd and Ni–Pd alloys 53 (1975) 228
C.T.H. Stoddart, R.L. Moss and D. Pope, Determination of the surface composition of palladium–nickel alloy film catalysts using Auger electron spectroscopy 53 (1975) 241
J.J. McCarroll, Surface physics and catalysis 53 (1975) 297
P.E.C. Franken and V. Ponec, Ethylene adsorption on thin films of Ni, Pd, Pt, Cu, Au and Al; work function measurements 53 (1975) 341
R.O. Jones, P.J. Jennings and G.S. Painter, Cluster calculations of the electronic structure of transition metal surfaces 53 (1975) 409
M.C. Desjonquères and F. Cyrot-Lackmann, Electronic surface states in cleaved transition metals 53 (1975) 429
P.M. Marcus, J.E. Demuth and D.W. Jepsen, Determination of the structure of ordered adsorbed layers by analysis of LEED spectra 53 (1975) 501
D.P. Woodruff, Surface structure from angular dependence of Auger electron emission 53 (1975) 538
H.H. Brongersma and T.M. Buck, Selected topics in low-energy ion scattering: surface segregation in Cu/Ni alloys and ion neutralization 53 (1975) 649
R.J. Madix, J.L. Falconer and A.M. Suszko, The autocatalytic decomposition of acetic acid on Ni(110) 54 (1976) 6
S.Y. Tong, J.B. Pendry and L.L. Kesmodel, A study of ion-core potentials used in low-energy electron diffraction calculations 54 (1976) 21
J.G. McCarty and R.J. Madix, The adsorption of CO, H_2, CO_2 and H_2O on carburized and graphitized Ni(110) 54 (1976) 121
J.G. McCarty and R.J. Madix, Formic acid desorption from graphitized Ni(110) 54 (1976) 210
H.H. Brongersma and J.B. Theeten, The structure of oxygen adsorbed on Ni(001) as determined by ion scattering spectroscopy 54 (1976) 519
R.H. Paulson and T.N. Rhodin, Electronic spectra of adsorbed chalcogen atoms: surface cluster approach 55 (1976) 61
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. I. Tight-binding calculations for adsorption on periodic surfaces 55 (1976) 291
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel. II. Cluster models for adsorption sites 55 (1976) 313
P.S. Ho and J.E. Lewis, Deconvolution method for composition profiling by Auger sputtering technique 55 (1976) 335
K. Wandelt and G. Ertl, Electron spectroscopic studies of the oxidation of Fe/Ni alloys 55 (1976) 403
S. Evans, J. Pielaszek and J.M. Thomas, Oxidation of nickel studied by UV and X-ray photoelectron spectroscopy 55 (1976) 644
R.E. Kirby, C.S. McKee and M.W. Roberts, Low temperature oxygen and activated nitrogen faceting of Ni(210) surfaces 55 (1976) 725
M.P. Hooker and J.T. Grant, Auger electron spectroscopy studies of CO on Ni spectral line shapes and quantitative aspects 55 (1976) 741
A. Rothen, Immunologic reactions carried out at a liquid-solid interface 56 (1976) 109
J.L. Ord, An optical study of the deposition and conversion of nickel hydroxide films 56 (1976) 413
N.G. Krishnan, W.G. Delgass and W.D. Robertson, X-ray photoelectron spectroscopy of oxygen adsorption on clean Ni(100) surfaces 57 (1976) 1
E.G. McRae and C.W. Caldwell, Elastic-scattering resonances observed in very low energy electron reflection at oxygenated Ni(100) surfaces 57 (1976) 63

J.E. Hulse and M. Moskovits, The interaction of CO with matrix-isolated Ni clusters: a model for CO chemisorbed on Ni 57 (1976) 125
G. Allié, F. Blanc and D. Dufayard, Angular distribution of the Auger emission from aluminum and nickel surfaces 57 (1976) 293
D. Aberdam, R. Baudoing, E. Blanc and C. Gaubert, Theory of angular dependence in electron emission from surfaces; application to Auger emission from several metal surfaces 57 (1976) 306
P.S. Ho, J.E. Lewis, H.S. Wildman and J.K. Howard, Auger study of preferred sputtering on binary alloy surfaces 57 (1976) 393
J.J. Burton, C.R. Helms and R.S. Polizzotti, Surface segregation in alloys: existence of ordered overlayers of Au segregated to the Ni(111) surface 57 (1976) 425
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Adsorption of CO on clean and oxygen covered Ni(111) surfaces 57 (1976) 475
E.G. McRae and C.W. Caldwell, Absorptive potential in nickel from very low energy electron reflection at Ni(001) surface 57 (1976) 766
L.C. Isett and J.M. Blakely, Segregation isosteres for carbon at the (100) surface of nickel 58 (1976) 397
D.E. Ellis, H. Adachi and F.W. Averill, Molecular cluster theory for chemisorption of first row atoms on nickel (100) surfaces 58 (1976) 497
M.-V. Mathieu et M. Primet, Inhibition par le cuivre de l'adsorption du monoxyde de carbone sur les alliages nickel–cuivre 58 (1976) 511
J. Verhoeven and J. Los, The influence of an electron beam on oxidation of polycrystalline nickel surfaces, monitored by disappearance potential spectroscopy (DAPS) 58 (1976) 566
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Ultraviolet photoelectron spectra from hydrogen adsorbed on Ni(111) and Pd(111) surfaces 58 (1976) 578
H. Schneck and G. Wedler, Oscillations of the galvanomagnetic properties of evaporated nickel films due to the adsorption of carbon monoxide 58 (1976) 597
H. Roux, A. Piquet, R. Uzan et M. Drechsler, Une détermination du coefficient d'autodiffusion de surface en présence d'une couche d'adsorption à l'aide de pointes à émission de champ (nickel sur tungstène) 59 (1976) 97
C.F. Melius, J.W. Moskowitz, A.P. Mortola, M.B. Baillie and M.A. Ratner, A molecular complex model for the chemisorption of hydrogen on a nickel surface 59 (1976) 279
W.N. Unertl and M.B. Webb, Surface parameters of clean nickel (001) determined by LEED averaging 59 (1976) 373
J.F. Mojica and L.L. Levenson, Bulk-to-surface precipitation and surface diffusion of carbon on polycrystalline nickel 59 (1976) 447
J.W. Gadzuk, Angle resolved Auger surface spectroscopy 60 (1976) 76
G.L. Price, B.A. Sexton and B.G. Baker, The chemisorption of nitric oxide on (110) nickel studied by LEED, AES and thermal desorption 60 (1976) 506

Nickel hydroxide

J.L. Ord, An optical study of the deposition and conversion of nickel hydroxide films 56 (1976) 413

Nickel oxide

F.P. Netzer and M. Prutton, Charge trapping in NiO surfaces during LEED observations 52 (1975) 505

Nickel sulphide

S.J. Gurman and J.B. Pendry, Ferromagnetic surface states of antiferromagnetic nickel sulphide 57 (1976) 241

Niobium

R. Dus̆, Hydrogen adsorption and absorption on evaporated Nb films 52 (1975) 440
J. Jupille et A. Cassuto, Interaction de l'oxygène aux basses pressions avec la solution solide niobium–oxygène à haute température
I. Equilibre de segrégation–chimisorption 60 (1976) 177

Nitric oxide

H.P. Bonzel and T.E. Fischer, An UV photoemission study of NO and CO adsorption on Pt(100) and Ru(1010) surfaces 51 (1975) 213
I.P. Batra and C.R. Brundle, Cluster model calculation and photoemission studies of molecularly adsorbed NO on Ni 57 (1976) 12
C.M. Comrie, W.H. Weinberg and R.M. Lambert, The adsorption of nitric oxide on Pt(111) and Pt(110) surfaces 57 (1976) 619
E. Miyaszaki and I. Yasumori, Chemisorption of O_2 and NO molecules on transition d-metals 57 (1976) 755
Y. Viswanath, G. Sanders and L.D. Schmidt, Adsorbate densities on (100)W 59 (1976) 297
G. Brodén, T.N. Rhodin, C. Brucker, R. Benbow and Z. Hurych, Synchrotron radiation of chemisorptive bonding of CO on transition metals–polarization effect on Ir(100) 59 (1976) 593
G.L. Price, B.A. Sexton and B.G. Baker, The chemisorption of nitric oxide on (110) nickel studied by LEED, AES and thermal desorption 60 (1976) 506

Nitrogen

E. Bohn and H. Moesta, Optical excitation of adsorbed nitrogen and its reactions with adsorbed hydrogen 51 (1975) 283
E.E. Mola, Theory of the binding energy and of photo-effects for N_2 on Fe 51 (1975) 290
M. Wilf and M. Folman, Field electron emission study of nitrogen adsorbed on individual tungsten planes 52 (1975) 10
S. Ross and I.D. Morrison, Computed adsorptive-energy distribution in the monolayer (CAEDMON) 52 (1975) 103
E. Fromm, Mechanism of chemisorption and interface penetration in reactive systems at low temperature 52 (1975) 401
U. Bauder and E. Fromm, Adsorption of nitrogen and oxygen by vapour-deposited tantalum films 52 (1975) 415
S. Andersson and C. Nyberg, Soft X-ray appearance potential spectroscopy of C, N, O, and S chemisorbed on some 3d transition metals 52 (1975) 489
S.P. Singh-Boparai, M. Bowker and D.A. King, Crystallographic anisotropy in chemisorption: nitrogen on tungsten single crystal planes 53 (1975) 55
H.D. Shih, K.O. Legg and F. Jona, Interfacial and plasmon-decay peaks in the Auger spectra of titanium and iron 54 (1976) 355
K. Kunimori, T. Kawai, T. Kondow, T. Onishi and K. Tamaru, Chemical effects of the nitrogen K-LL Auger spectra of chemisorbed N_2 on Fe and Mo surfaces 54 (1976) 525

R.E. Kirby, C.S. McKee and M.W. Roberts, Low temperature oxygen and activated nitrogen faceting of Ni(210) surfaces 55 (1976) 725
E. Miyazaki and I. Yasumori, An evaluation of heats of chemisorption of gases by an empirical method 55 (1976) 747
G. Gafner and F. Feder, A low-energy electron diffraction study of Fe(110). I. Experimental 57 (1976) 37
R. Feder and G. Gafner, A low-energy electron diffraction study of Fe(110). II. Theory and comparison with the experiment 57 (1976) 45
E.G. McRae and C.W. Caldwell, Very low energy electron reflection at Cu(001) surfaces 57 (1976) 77
E. Fromm, O. Mayer and W. Nickerson, Interrelation between thickness of oxygen and nitrogen chemisorption layers and thermochemical data 57 (1976) 775
J.T. Yates, Jr., R. Klein and T.E. Madey, Adsorption of molecular nitrogen by the W(110) plane 58 (1976) 469
D.E. Ellis, H. Adachi and F.W. Averill, Molecular cluster theory for chemisorption of first row atoms on nickel (100) surfaces 58 (1976) 497
M.A. Chesters, B.J. Hopkins and R.I. Winton, Auger and electron energy loss spectra of adsorbed species: and states of carbon monoxide and nitrogen on W(100) 59 (1976) 46
Y. Viswanath, G. Sanders and L.D. Schmidt, Adsorbate densities on (100)W 59 (1976) 297
K. Kunimori, T. Kawai, T. Knodow, T. Onishi and K. Tamaru, High resolution Auger electron spectroscopic study of nitrogen species adsorbed on a Pd surface; hydrogenation and dehydrogenation of NH_x adsorbed on a Pd surface 59 (1976) 302
G. Brodèn, T.N. Rhodin, C. Brucker, R. Benbow and Z. Hurych, Synchrotron radiation study of chemisorptive bonding of CO on transition metals – polarization effect on Ir(100) 59 (1976) 593
H.D. Shih, F. Jona, D.W. Jepsen and P.M. Marcus, Atomic underlayer formation during the reaction of Ti{0001} with nitrogen 60 (1976) 445
M. Wilf and P.T. Dawson, Adsorption of nitrogen on platinum 60 (1976) 561

Nitrous oxide

R.P.H. Gasser and D.E. Holt, Simultaneous and sequential adsorption of deuterium and nitrous oxide by rhenium 52 (1975) 457

Noble gases

S. Ross and I.D. Morrison, Computed adsorptive-energy distribution in the monolayer (CAEDMON) 52 (1975) 103
P. Jewsbury, On the interpretation of rainbow scattering in gas atom/surface collisions 52 (1975) 325
C. Bernard, J. Suzanne, M. Bienfait et P. Hicter, Application d'un modèle de l'état liquide à une monocouche de xénon ou de krypton absorbées sur la surface (0001) du graphite 52 (1975) 340
B.G. Baker and B.A. Sexton, Electron beam effects in Auger analysis of physisorbed xenon 52 (1975) 353
H. Iwasaki and S. Nakamura, Ion current generation in the field ion microscope. I. Dynamic approach 52 (1975) 588
H. Iwasaki and S. Nakamura, Ion current generation in the field ion microscope. II. Quasi-static approach 52 (1975) 597

A. Tsuchida, The (0,0) Fourier component of the interaction potential of He/LiF(001) 52 (1975) 685
H. Papp and J. Pritchard, The adsorption of Xe and CO on a Cu(311) single crystal surface 53 (1975) 371
T.E. Gallon and J.D. Nuttall, Solid state broadening in Auger spectra 53 (1975) 698
M. Jaroniec, S. Sokolowski and W. Rudziński, Some remarks on the maximum adsorption energy 54 (1976) 189
G. McElhiney, H. Papp and J. Pritchard, The adsorption of Xe and CO on Ag(111) 54 (1976) 617
H.M. Kramer and J. Suzanne, Adsorption of krypton on the basal plane of graphite: LEED and Auger measurements 54 (1976) 659
R.H. Roberts and J. Pritchard, Monolayer structures of Kr and Xe on Ag(111) and Cu(211) 54 (1976) 687
G.R. Hanson and M.G. Inghram, Surface dependence of field ion energy distributions, He on W 55 (1976) 29
J.A. Venables, H.M. Kramer and G.L. Price, Observation of an adsorbed monolayer by transmission high energy electron diffraction 55 (1976) 373
G. Quentel et R. Kern, Approache théorique par ellipsométrie des constantes optiques de couches monoatomiques physisorbées 55 (1976) 545
J.N. Schmit, The effect of long-range three-particle forces on the surface energy and physisorption energy of rare gas crystals 55 (1976) 585
F. Millot, Adsorption du krypton sur le chlorure-ferrique et contribution à l'énergie d'adsorption des interactions cation–adsorbat 55 (1976) 717
J. Ferrante and S.V. Pepper, Production of Ne Auger electrons by Ne^+ bombardment of Mg and Al surfaces 57 (1976) 420
R.S. Crandall, Properties of surface state electrons on liquid helium 58 (1976) 266
C.I. Zipfel, T.R. Brown and C.C. Grimes, Spectroscopic studies of electron surface states on liquid helium (extended abstract) 58 (1976) 283
P.M. Platzman and N. Tzoar, Many body effects in the absorption spectrum of electrons in two-dimensional systems (extended abstract) 58 (1976) 289
C.C. Grimes and G. Adams, Plasmons in a sheet of electrons on liquid helium (extended abstract) 58 (1976) 292
T.R. Brown and R.W. Hockney, A phase transition in a classical electron film (extended abstract) 58 (1976) 295
P.I. Cohen, J. Unduris and M.B. Webb, Xe monolayer adsorption on Ag(111). I. Structural properties 58 (1976) 429
L.W. Bruch, P.I. Cohen and M.B. Webb, Xe monolayer adsorption on Ag(111) II. Lateral structure and Xe–Xe interactions 59 (1976) 1
G.L. Price and J.A. Venables, A theory of phase transitions in solid krypton and xenon monolayers on graphite 59 (1976) 509
A. Glachant, J.P. Coulomb and J.P. Biberian, AES and LEED studies of xenon adsorption on (100)NaCl 59 (1976) 619
F.O. Goodman, Application of a one-dimensional classical model of atom–oscillator scattering to atom–surface accommodation coefficient theory 60 (1976) 45
D. Castiel, L. Dobrzynski and D. Spanjaard, Surface phonons and superstructures for adsorbate–substrate systems of rare gas solids 60 (1976) 269
N. Garcia, J. Ibánez, J. Solana and N. Cabrera, Analysis of the methods proposed for computing the scattering of atoms from a hard corrugated surface model of He/LiF(001) 60 (1976) 385
G. McElhiney and J. Pritchard, The adsorption of Xe and CO on Au(100) 60 (1976) 397

Nuclear magnetic resonance spectroscopy (NMR)

H. Lechert und H.W. Henneke, Untersuchungen der Protonenresonanz von adsorbiertem Wasser an Zeolithen des Faujasit-Typs mit verschiedenen Silicium-Aluminium-Verhältnissen 51 (1975) 189
B. Rakvin and J.N. Herak, Proton magnetic resonance parameters of hydroxyl groups on silicagel 51 (1975) 310
H. Pfeifer, Nuclear magnetic resonance of water adsorbed in zeolites of faujasite type 52 (1975) 434
P.J. Caplan, J.N. Helbert, B.E. Wagner and E.H. Poindexter, Paramagnetic defects in silicon/silicon dioxide systems 54 (1976) 33
D. Michel and V. Rössiger, Proton spin relaxation of butenes and butane in CaNaA zeolites 54 (1976) 463
D. Geschke, W.-D. Hoffmann and D. Deininger, Quantum chemical and NMR investigations on structure of surface complexes 57 (1976) 559

Nucleation

C. van Leeuwen and P. Bennema, The critical nucleus 51 (1975) 109
A.M. Brown and P.L. Surman, Oxidation of iron within the scanning electron microscope: oxide crystallite growth kinetics during the oxidation of iron in CO_2 52 (1975) 85
J.C. Zanghi, J.J. Métois and R. Kern, Elastic interaction between small nuclei 52 (1975) 556
J.C. Zanghi, Influence of a monatomic step on the collective behaviour of gold nuclei 60 (1976) 425

Optical properties

D.A. Bryan, D.L. Begley, K. Bhasin, R.W. Alexander, R.J. Bell and R. Gerson, Propagation distance of surface electromagnetic waves on two metal–oxide–air systems 57 (1976) 53
K.W. Chiu, T.K. Lee and J.J. Quinn, Infrared magneto-transmittance of a two-dimensional electron gas (extended abstract) 58 (1976) 182
T.A. Kennedy, R.J. Wagner, B.D. McCombe and D.C. Tsui, Frequency dependent effective masses in Si inversion layers at metallic densities 58 (1976) 185
D.L. Begley, D.A. Bryan, R.W. Alexander, R.J. Bell and C.A. Goben, Propagation distances of surface electromagnetic waves on Ni, Pd, Pt, and W. metal surfaces 60 (1976) 99

Organic substances

J.D. Langan and P.K. Hansma, Can the concentration of surface species be measured with inelastic electron tunneling? 52 (1975) 211
W.Y. Lee and L.J. Slutsky, The interaction of naphthalene and adamantane with gold surfaces 54 (1976) 169
K. Kinosita and M. Yamamoto, Principal angle-of-incidence ellipsometry 56 (1976) 64
T.H. Allen, Ellipsometric measurements on vapor deposited organic films 56 (1976) 462
D. Geschke, W.-D. Hoffmann and D. Deininger, Quantum chemical and NMR investigations on structure of surface complexes 57 (1976) 559
J.G. Dash, J. Suzanne, H. Shechter and R.E. Peierls, Direct measurement of spreading pressures of films adsorbed on crystalline substrates 60 (1976) 411

Oxidation

C. Leygraf, G. Hultquist and S. Ekelund, A LEED/AES study of $Fe_{0.84}Cr_{0.16}$(100) and (110) 51 (1975) 409
C. Nyberg, The reaction of oxygen with Ti, Cr, Fe and Ni studied by appearance potential spectroscopy 52 (1975) 1
M.A. Chesters and G.A. Somorjai, The chemisorption of oxygen water and selected hydrocarbons on the (111) and stepped gold surfaces 52 (1975) 21
C.A. Papageogopoulos and J.M. Chen, Coadsorption of cesium and oxygen on Ni(100). II. Cesium enhanced chemisorption and oxidation 52 (1975) 53
A.M. Brown and P.L. Surman, Oxidation of iron within the scanning electron microscope oxide crystallite growth kinetics during the oxidation of iron in CO_2 52 (1975) 85
C.R. Brundle, The use of X-ray photoelectron and Auger spectroscopy to determine the surface composition of oxidised vanadium 52 (1975) 426
F.J. Szalkowski and G.A. Somorjai, Comments on "The use of X-ray photoelectron and Auger spectroscopy to determine the surface composition of oxidised vanadium" by C.R. Brundle 52 (1975) 431
C.T.H. Stoddart, R.L. Moss and D. Pope, Determination of the surface composition of palladium–nickel alloy film catalysts using Auger electron spectroscopy 53 (1975) 241
J.S.L. Leach, The role of surface films in corrosion and oxidation 53 (1975) 257
E. Legrand-Bonnyns and A. Ponslet, Pre-oxidation structures at 650°C on Cu(100), (210) and (841) surfaces studied by RHEED and microscopy 53 (1975) 675
P.J. Caplan, J.N. Helbert, B.E. Wagner and E.H. Poindexter, Paramagnetic defects in silicon/silicon dioxide systems 54 (1976) 33
V.K. Agarwala and T. Fort, Jr., Nature of the stable oxide layer formed on an aluminum surface by work function measurements 54 (1976) 60
A.P. Janssen and R.C. Schoonmaker, An Auger and reflection electron diffraction investigation of oxygen and hydrogen adsorption on strontium surfaces 55 (1976) 109
K. Wandelt and G. Ertl, Electron spectroscopic studies of the oxidation of Fe/Ni alloys 55 (1976) 403
T. Smith, Auger electron spectroscopy and ion sputter profiles of oxides on aluminum 55 (1976) 601
S. Evans, J. Pielaszek and J.M. Thomas, Oxidation of nickel studied by UV and X-ray photoelectron spectroscopy 55 (1976) 644
R.A. Powell and W.E. Spicer, Photoemission study of oxygen chemisorption on tin 55 (1976) 681
J. Horkans, Comment on the use of "Kramers–Kronig analysis for the determination of the optical constants of thin surface films" by K. Naegele and W.J. Plieth 55 (1976) 713
W.J. Plieth and K. Naegele, Reply to Comment on the use of "Kramers–Kronig analysis for the determination of the optical constants of thin surface films" 55 (1976) 715
M.A.B. Gültepe, Some considerations on the determination of optical properties of adsorbed films 56 (1976) 76
K. Vedam, Characterization of defects on real surfaces by ellipsometry 56 (1976) 221
B.D. Cahan, Implications of three parameter solutions to the three-layer model 56 (1976) 354
S. Gottesfeld, M. Babai and B. Reichman, Combined ellipsometric and

reflectometric measurements of surface processes on noble metal electrodes 56 (1976) 373
J.L. Ord, An optical study of the deposition and conversion of nickel hydroxide films 56 (1976) 413
J.R. Adams and D.K. Kramer, A study of the oxidation of tantalum nitride by ellipsometry and Auger electron spectroscopy 56 (1976) 482
P.C.S. Hayfield, Ellipsometry as an aid in studying metallic corrosion problems 56 (1976) 488
P.H. Dawson, The oxidation of aluminum studied by SIMS at low energies 57 (1976) 229
S. Gottesfeld, M. Babai and B. Reichman, The analysis of surface processes on solid electrons by combined modulated ellipsometric and reflectometric experiments 57 (1976) 251
C.F. Brucker and T.N. Rhodin, Oxygen chemisorption and reaction on α-Fe-(100) using photoemission and low-energy electron diffraction 57 (1976) 523
G.M. Guichar, G.A. Sébenne, G.A. Garry and M. Balkanski, Structure dependent oxidation of clean Si(111) surfaces 58 (1976) 374
J. Verhoeven and J. Los, The influence of an electron beam on oxidation of polycrystalline nickel surfaces, monitored by disappearance potential spectroscopy (DAPS) 58 (1976) 566
V.T. Cherepin, A.A. Kosyachkov and M.A. Vasilyev, Effect of initial ion bombardment and oxidation on emission of secondary ions 58 (1976) 609
G.K.L. Cranstroun and D.R. Pyke, Field ion microscope observations of surface rearrangement and oxide formation at clean rhenium surfaces heated in oxygen 60 (1976) 157
C.R. Brundle, T.J. Chuang and D.W. Rice, X-ray photoemission study of the interaction of oxygen and air with clean cobalt surfaces 60 (1976) 285

Oxides

K.S. Kim, W.E. Baitinger and N. Winograd, X-ray photoelectron spectroscopic studies of PbO surfaces bombardment with He^+, Ne^+, Ar^+, Xe^+ and Kr^+ 55 (1976) 285

Oxygen

C. Leygraf, G. Hultquist and S. Ekelund, A LEED/AES study of $Fe_{0.84}Cr_{0.16}$(100) and (110) 51 (1975) 409
M. Domke, J.H. Block and M. Drechsler, The influence of electric fields on adsorbed gases: FEM of oxygen on tungsten single crystal faces 51 (1975) 451
F.P. Netzer and G. Kneringer, The adsorption of hydrogen and the reaction of hydrogen with oxygen on Pt(100) 51 (1975) 526
C. Nyberg, The reaction of oxygen with Ti, Cr, Fe and Ni studied by appearance potential spectroscopy 52 (1975) 1
M.A. Chesters and G.A. Somorjai, The chemisorption of oxygen, water and selected hydrocarbons on the (111) and stepped gold surfaces 52 (1975) 21
C.A. Papageorgopoulos and J.M. Chen, Coadsorption of cesium and oxygen on Ni(100). I. Cesium probing of Ni–O bonding 52 (1975) 40
C.A. Papageorgopoulos and J.M. Chen, Coadsorption of cesium and oxygen on Ni(100). II. Cesium enhanced chemisorption and oxidation 52 (1975) 53
T. Engel, H. Niehus and E. Bauer, Adsorption of oxygen on W(110). I. The p(2 × 1) structure 52 (1975) 237
E. Fromm, Mechanism of chemisorption and interface penetration in

reactive systems at low temperatures 52 (1975) 401
U. Bauder and E. Fromm, Adsorption of nitrogen and oxygen by vapour-deposited tantalum films 52 (1975) 415
S. Andersson and C. Nyberg, Soft X-ray appearance potential spectroscopy of C, N, O, and S chemisorbed on some 3d transition metals 52 (1975) 489
J.C. Fuggle, T.E. Madey, M. Steinkilberg and D. Menzel, Photoelectron spectroscopic studies of adsorption of CO and oxygen on Ru(001) 52 (1975) 521
G. Rovida and F. Pratesi, Chemisorption of oxygen on the silver (110) surface 52 (1975) 542
E. Hulpke, Scattering of Li^+ from LEED characterized W(110) and Si(111) surfaces at energies between 2 and 20 eV 52 (1975) 615
B.J. Hopkins, G.D. Watts and A.R. Jones, The adsorption of oxygen on tungsten (100) – temperature effects 52 (1975) 715
J.C. Fuggle and D. Menzel, Coverage dependent shifts of XPS peaks during chemisorption on metals 53 (1975) 21
W. Heiland, F. Iberl, E. Taglauer and D. Menzel, Oxygen adsorption on (110) silver 53 (1975) 383
H. Ibach, Relations between electronic properties of clean surfaces and activated adsorption 53 (1975) 444
Y. Margoninski, D. Segal and R.E. Kirby, The interference of an electron beam with the surface reaction between oxygen and germanium 53 (1975) 488
P.M. Marcus, J.E. Demuth and D.W. Jepsen, Determination of the structure of ordered adsorbed layers by analysis of LEED spectra 53 (1975) 501
C. Argile and G.E. Rhead, Calibration in Auger electron spectroscopy by means of coadsorption 53 (1975) 659
V.K. Agarwala and T. Fort, Jr., Nature of the stable oxide layer formed on an aluminum surface by work function measurements 54 (1976) 60
P.E. Gregory and W.E. Spicer, Photoemission study of the adsorption of O_2, CO and H_2 on GaAs(110) 54 (1976) 229
T.N. Taylor, C.A. Colmenares, R.L. Smith and G.A. Somorjai, The thorium (100) crystal face; a study of its cleaning, surface structure, and interaction with oxygen and carbon monoxide 54 (1976) 317
H.D. Shih, K.O. Legg and F. Jona, Interfacial and plasmon-decay peaks in the Auger spectra of titanium and iron 54 (1976) 355
H.H. Brongersma and J.B. Theeten, The structure of oxygen adsorbed on Ni(001) as determined by ion scattering spectroscopy 54 (1976) 519
P. Chiaradia and S. Nannarone, Optical properties of the clean and slowly oxidized surface of silicon 54 (1976) 547
S.M. Cox and D. Lichtman, Photodesorption from TiO_2 54 (1976) 675
A.P. Janssen and R.C. Schoonmaker, An Auger and reflection electron diffraction investigation of oxygen and hydrogen adsorption on strontium surfaces 55 (1976) 109
R. Ducros and R.P. Merrill, The interaction of oxygen with Pt(110) 55 (1976) 227
W. Göpel and G. Neuenfeldt, Debye temperatures and step arrays of ZnO($10\bar{1}0$) surface determined by LEED 55 (1976) 362
P.B. Sewell and D.F. Mitchell, X-ray emission measurements of oxygen on the (0001) and ($10\bar{1}0$) surfaces of tellurium 55 (1976) 367
D.M. Collins, J.B. Lee and W.E. Spicer, A photoemission and thermal desorption study of carbon monoxide and oxygen adsorbed on platinum 55 (1976) 389
R. Ducros, J.J. Ehrhardt, M. Alnot and A. Cassuto, Hydrogen and deuterium adsorption on polycrystalline rhenium surfaces; effect of carbon and oxygen coadsorption 55 (1976) 509

S. Evans, J. Pielaszek and J.M. Thomas, Oxidation of nickel studied by UV and X-ray photoelectron spectroscopy 55 (1976) 644
R.A. Powell and W.E. Spicer, Photoemission study of oxygen chemisorption on tin 55 (1976) 681
R.E. Kirby, C.S. McKee and M.W. Roberts, Low temperature oxygen and activated nitrogen faceting of Ni(210) surfaces 55 (1976) 725
B.J. Hopkins and G.D. Watts, An Auger spectroscopic study of the coadsorption of O_2 + CO, and O_2 + CO_2 on a W(111) surface 55 (1976) 729
E. Miyazaki and I. Yasumori, An evaluation of heats of chemisorption of gases by an empirical method 55 (1976) 747
N.G. Krishnan, W.G. Delgass and W.D. Robertson, X-ray photoelectron spectroscopy of oxygen adsorption on clean Ni(100) surfaces 57 (1976) 1
E.G. McRae and C.W. Caldwell, Elastic-scattering resonances observed in very low energy electron reflection at oxygenated Ni(100) surfaces 57 (1976) 63
E.G. McRae and C.W. Caldwell, Very low energy electron reflection at Cu(001) surfaces 57 (1976) 77
R. Kelly and J.B. Sanders, Recoil implantation from a thin source. I. Underlying theory and numerical results 57 (1976) 143
K.Y. Yu, W.E. Spicer, I. Lindau, P. Pianetta and S.F. Lin, UPS studies of the bonding of H_2, O_2, CO, C_2H_4 and C_2H_2 on Fe and Cu 57 (1976) 157
P.H. Dawson, The oxidation of aluminum studied by SIMS at low energies 57 (1976) 229
W.G. Dorfeld, J.B. Hudson and R. Zuhr, The interaction of an O_2 molecular beam with an Fe(110) surface 57 (1976) 460
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Adsorption of CO on clean and oxygen covered Ni(111) surfaces 57 (1976) 475
C.F. Brucker and T.N. Rhodin, Oxygen chemisorption and reaction on α-Fe(100) using photoemission and low-energy electron diffraction 57 (1976) 523
T.E. Madey, J.J. Czyzewski and J.T. Yates, Jr., Ion angular distributions in electron stimulated desorption: oxygen and CO on W(111) 57 (1976) 580
H.A. Engelhardt and D. Menzel, Adsorption of oxygen on silver single crystal surfaces 57 (1976) 591
D.I. Hagen, B.E. Nieuwenhuys, G. Rovida and G.A. Somorjai, Low-energy electron diffraction, Auger electron spectroscopy, and thermal desorption studies of chemisorbed CO and O_2 on the (111) and stepped [6(111) × (100)] iridium surfaces 57 (1976) 632
M. Alnot, J. Fusy et A. Cassuto, Etude de l'interaction à température ordinaire du monoxyde de carbone gazeux avec de l'oxygène adsorbé sur platine polycristallin 57 (1976) 651
E. Miyazaki and I. Yasumori, Chemisorption of O_2 and NO molecules on transition d-metals 57 (1976) 755
E. Fromm, O. Mayer and W. Nickerson, Interrelation between thickness of oxygen and nitrogen chemisorption layers and thermochemical data 57 (1976) 775
Y.W. Chung, W. Siekhaus and G.A. Somorjai, Studies of acetylene and oxygen adsorption on silicon surfaces by low-energy electron loss spectroscopy 58 (1976) 341
G.M. Guichar, C.A. Sébenne, G.A. Garry and M. Balkanski, Structure dependent oxidation of clean Si(111) surfaces 58 (1976) 374
D.E. Ellis, H. Adachi and F.W. Averill, Molecular cluster theory for chemisorption of first row atoms on nickel (100) surfaces 58 (1976) 497
E. Bauer, H. Poppa and Y. Viswanath, Adsorption of oxygen on W(100): adsorption kinetics and structure 58 (1976) 517
J. Verhoeven and J. Los, The influence of an electron beam on oxidation of

polycrystalline nickel surfaces, monitored by disappearance potential spectroscopy (DAPS) 58 (1976) 566
B. Carrière and J.P. Deville, Does the Auger peak of oxygen bring information in metal oxidation studies? 58 (1976) 618
S.C. Dahlberg, Photovoltage studies of clean and oxygen covered gallium arsenide 59 (1976) 83
R. Duš and W. Lisowski, Studies on the possibility of determination of surface area of palladium films by means of adsorption of hydrogen or oxygen and reciprocal titration of these gases 59 (1976) 141
Y. Viswanath, G. Sanders and L.D. Schmidt, Adsorbate densities on (100)W 59 (1976) 297
A. Hurkmans, E.G. Overbosch and J. Los, Trapping probabilities and desorption energies of alkali atoms on a clean and an oxygen covered tungsten (110) surface 59 (1976) 488
J. Dericbourg, Adsorption de l'oxygène sur le graphite; nouvelle détermination graphique de l'entropie différentielle d'adsorption 59 (1976) 554
G. Brodén, T.N. Rhodin, C. Brucker, R. Benbow and Z. Hurych, Synchrotron radiation study of chemisorptive bonding of CO on transition metals – polarization effect on Ir(100) 59 (1976) 593
G.R. Floyd and R.H. Prince, Electron stimulated desorption of fluorine and barium from tungsten 59 (1976) 631
C. Leung and R. Gomer, A low temperature precursor to chemisorbed oxygen on tungsten (110) 59 (1976) 638
G. Blaise, Similarities in photon and ion emissions induced by sputtering 60 (1976) 65
R.W. McCabe and L.D. Schmidt, Adsorption of H_2 and CO on clean and oxidized (110)Pt 60 (1976) 85
G.K.L. Cranstoun and D.R. Pyke, Field ion microscope observations of surface rearrangement and oxide formation at clean rhenium surfaces heated in oxygen 60 (1976) 157
J. Jupille et A. Cassuto, Interaction de l'oxygène aux basses pressions avec la solution solide niobium–oxygène à température
I. Equilibre de segrégation–chimisorption 60 (1976) 177
W. Losch and A.J. Monhemius, An AES study of a copper–iron sulphide mineral 60 (1976) 196
C.R. Brundle, T.J. Chuang and D.W. Rice, X-ray photoemission study of the interaction of oxygen and air with clean cobalt surfaces 60 (1976) 285
T.N. Rhodin and G. Brodén, Preparation and chemisorptive properties of the clean normal and reconstructed surfaces of Ir(100) – role of multiplets 60 (1976) 466

Palladium

R.C. Baetzold, Calculated model for metal cluster catalysis: H_2 dissociation 51 (1975) 1
B.J. Wood and H. Wise, Surface composition of Pd–Au and Pd–Ag catalysts by Auger electron spectroscopy 52 (1975) 151
A.M. Bradshaw and F. Hoffmann, IR reflection–absorption spectroscopy of CO adsorbed on palladium 52 (1975) 449
H.J. Mathieu and D. Landolt, Quantitative Auger electron spectroscopy analysis of Ag–Pd and Ni–Pd alloys 53 (1975) 228
C.T.H. Stoddart, R.L. Moss and D. Pope, Determination of the surface composition of palladium–nickel alloy film catalysts using Auger electron spectroscopy 53 (1975) 241

P.E.C. Franken and V. Ponec, Ethylene adsorption on thin films of Ni, Pd, Pt, Cu, Au and Al; work function measurements 53 (1975) 341
R.V. Bucur, V. Mecea and T.B. Flanagan, The kinetics of hydrogen (deuterium) sorption by thin palladium layers studied with a piezoelectric quartz crystal microbalance 54 (1976) 477
S. Gottesfeld, M. Babai and B. Reichman, Combined ellipsometric and reflectometric measurements of surface processes on noble metal electrodes 56 (1976) 373
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Ultraviolet photoelectron spectra from hydrogen adsorbed on Ni(111) and Pd(111) surfaces 58 (1976) 578
I. Lundström and T. DiStefano, Hydrogen induced interfacial polarization at Pd–SiO_2 interfaces 59 (1976) 23
R. Duš and W. Lisowski, Studies on the possibility of determination of surface area of palladium films by means of adsorption of hydrogen of oxygen and reciprocal titration of these gases 59 (1976) 141
K. Kunimori, T. Kawai, T. Kondow, T. Onishi, and K. Tamaru, High resolution Auger electron spectroscopic study of nitrogen species adsorbed on a Pd surface; hydrogenation and dehydrogenation of NH_x adsorbed on a Pd surface 59 (1976) 302

Phosphorus

L. Viel, C. Benazeth et N. Benazeth, Spectres Auger sous bombardement d'ions Ar^+ de 60 keV de quelques éléments purs et de composés binaires 54 (1976) 635
J.R. Adams, Complex refractive index and phosphorus concentration profiles in P^+_{31} ion implanted silicon by ellipsometry and Auger electron spectroscopy 56 (1976) 307

Photoconductivity

R.G. Wheeler, Far infrared photoresistive response in silicon inversion layers and electric subband spectra (abstract only) 58 (1976) 146

Photodesorption

Y. Shapira, S.M. Cox and D. Lichtman, Chemisorption, photodesorption and conductivity measurements on ZnO surfaces 54 (1976) 43
S.M. Cox and D. Lichtman, Photodesorption from TiO_2 54 (1976) 675

Photoelectric emission, see also Electron emission

R.H. Williams and I.T. McGovern, Surface characterization of indium phosphide 51 (1975) 14
K. Jacobi, Surface states on phosphorus- and gallium-rich GaP($\bar{1}\bar{1}\bar{1}$) surfaces in electron energy-loss spectroscopy and photoemission 51 (1975) 29
J.K. Sass, Evidence for an anisotropic volume photoelectric effect in polycrystalline nearly free electron metals 51 (1975) 199
Y. Teisseyre, R. Coelho and R. Haug, Photo-stimulated field emission of barium-coated tungsten 52 (1975) 120
U. Bauder and E. Fromm, Adsorption of nitrogen and oxygen by vapour-deposited tantalum films 52 (1975) 415

M.M. Traum and N.V. Smith, Repeated zones and Mahan cones in the angular dependence of photoemission 53 (1975) 121
J.W. Gadzuk, Angle resolved photoemission from chemisorbed layers: further theoretical considerations 53 (1975) 132
S.A. Flodström, G.V. Hansson, S.B.M. Hagström and J.E. Endriz, Photoemission with polarized light from free-electron and transition metals 53 (1975) 156
R.A. Powell and W.E. Spicer, Photoemission study of oxygen chemisorption on tin 55 (1976) 681
A.J. van Bommel and J.E. Crombeen, LEED, Auger electron spectroscopy (AES) and photoemission studies of the adsorption of cesium on the epitaxially grown GaAs(110) surface 57 (1976) 109
J.B. Pendry, Theory of photoemission 57 (1976) 679
G.M. Guichar, C.A. Sébenne, G.A. Garry and M. Balkanski, Structure dependent oxidation of clean Si(111) surfaces 58 (1976) 374
L.J. Brillson, G.P. Brillson and G.P. Ceasar, X-ray photoionization cross sections for quantitative analysis 58 (1976) 457
I. Lundström and T. DiStefano, Hydrogen induced interfacial polarization at Pd–SiO_2 interfaces 59 (1976) 23
T. Radón and Ch. Kleint, Photo field-emission spectroscopy of optical transitions in the band structure of tungsten 60 (1976) 540

Photoelectron spectroscopy (PES)

H.P. Bonzel and T.E. Fischer, An UV photoemission study of NO and CO adsorption on Pt(100) and Ru(1010) surfaces 51 (1975) 213
C.R. Brundle, The use of X-ray photoelectron and Auger spectroscopy to determine the surface composition of oxidised vanadium 52 (1975) 426
F.J. Szalkowski and G.A. Somorjai, Comments on "The use of X-ray photoelectron and Auger spectroscopy to determine the surface composition of oxidised vanadium" by C.R. Brundle 52 (1975) 431
J.C. Fuggle, T.E. Madey, M. Steinkilberg and D. Menzel, Photoelectron spectroscopic studies of adsorption of CO and oxygen on Ru(001) 52 (1975) 521
J.C. Fuggle and D. Menzel, Coverage dependent shifts of XPS peaks during chemisorption on metals 53 (1975) 21
M.M. Traum and N.V. Smith, Repeated zones and Mahan cones in the angular dependence of photoemission 53 (1975) 121
J.W. Gadzuk, Angle resolved photoemission from chemisorbed layers: further theoretical considerations 53 (1975) 132
J.E. Castle and D.C. Epler, The correlation of XPS analysis with electrochemical history in aqueous corrosion 53 (1975) 286
J.J. McCaroll, Surface physics and catalysis 53 (1975) 297
J.E. Rowe, Anisotropic photoemission and chemisorption-bond geometry on Ge(111) and Si(111) surfaces 53 (1975) 461
M. Gettings and J.P. Coad, A preliminary study of pure metal surfaces using Auger electron spectroscopy (AES), X-ray photoelectron spectroscopy (XPS) and secondary ion mass spectroscopy (SIMS) 53 (1975) 636
J.C. Phillips and K.C. Pandey, Surface resonances in photoemission spectra of GaAs 54 (1976) 183
P.E. Gregory and W.E. Spicer, Photoemission study of the adsorption of O_2, CO and H_2 on GaAs(110) 54 (1976) 229
M.K. Bahl and R.L. Watson, Evidence for shakeup satellites due to

surface contamination in arsenic metal and its compounds 54 (1976) 540
W.F. Egelhoff, Jr., D.L. Perry and J.W. Linnett, The adsorption of mercury on tungsten (100) studied by ultra-violet photoelectron spectroscopy 54 (1976) 670
E. Gillet, J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
K.S. Kim, W.E. Baitinger and N. Winograd, X-ray photoelectron spectroscopic studies of PbO surfaces bombarded with He^+, Ne^+, Ar^+, Xe^+ and Kr^+ 55 (1976) 285
D.M. Collins, J.B. Lee and W.E. Spicer, A photoemission and thermal desorption study of carbon monoxide and oxygen adsorbed on platinum 55 (1976) 389
S. Evans, J. Pielaszek and J.M. Thomas, Oxidation of nickel studied by UV and X-ray photoelectron spectroscopy 55 (1976) 644
R.A. Powell and W.E. Spicer, Photoemission study of oxygen chemisorption on tin 55 (1976) 681
F. Meyer, Ellipsometric studies of adsorption reactions on clean surfaces 56 (1976) 37
N.G. Krishnan, W.G. Delgass and W.D. Robertson, X-ray photoelectron spectroscopy of oxygen adsorption on clean Ni(100) surfaces 57 (1976) 1
I.P. Batra and C.R. Brundle, Cluster model calculation and photoemission studies of molecularly adsorbed NO on Ni 57 (1976) 12
K.Y. Yu, W.E. Spicer, I. Lindau, P. Pianetta and S.F. Lin, UPS studies of the bonding of H_2, O_2, CO, C_2H_4 and C_2H_2 on Fe and Cu 57 (1976) 157
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Adsorption of CO on clean and oxygen covered Ni(111) surfaces 57 (1976) 475
C.F. Brucker and T.N. Rhodin, Oxygen chemisorption and reaction on α-Fe-(100) using photoemission and low-energy electron diffraction 57 (1976) 523
H. Iwasaki and S. Nakamura, On the depth profiles by ESCA 57 (1976) 779
L.J. Brillson and G.P. Ceasar, X-ray photoionization cross sections for quantitative analysis 58 (1976) 457
J.A. Appelbaum, H.D. Hagstrum, D.R. Hamann and T. Sakurai, The effect of disordering on the spectral properties of partial monolayers of H on Si(111) 58 (1976) 479
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Ultraviolet photoelectron spectra from hydrogen adsorbed on Ni(111) and Pd(111) surfaces 58 (1976) 578
T.J. Chuang, C.R. Brundle and D.W. Rice, Interpretation of the X-ray photoemission spectra of cobalt oxide surfaces 59 (1976) 413
G. Brodén, T.N. Rhodin, C. Brucker, R. Benbow and Z. Hurych, Synchrotron radiation study of chemisorptive bonding of CO on transition metals – polarization effect on Ir(100) 59 (1976) 593
T.V. Vorburger, D.R. Sandstrom and B.J. Waclawski, The displacement of hydrogen by carbon monoxide on the (100) face of tungsten: a photoemission and thermal desorption study 60 (1976) 211
C.R. Brundle, T.J. Chuang and D.W. Rice, X-ray photoemission study of the interaction of oxygen and air with clean cobalt surfaces 60 (1976) 285
T.N. Rhodin and G. Brodén, Preparation and chemisorptive properties of the clean normal and reconstructed surfaces of Ir(100) – role of multiplets 60 (1976) 466

Photon emission

B. Kasemo and L. Walldén, Photon and electron emission during halogen adsorption on sodium 53 (1975) 393

G. Blaise, Similarities in photon and ion emissions induced by sputtering 60 (1976) 65
P.J. Martin, A.R. Bayly, R.J. MacDonald, N.H. Tolk, G.J. Clark and J.C. Kelly, De-excitation processes near the surface of ion bombarded SiO_2 and Si 60 (1976) 349

Photon excitation

E. Bohn and H. Moesta, Optical excitation of adsorbed nitrogen and its reactions with adsorbed hydrogen 51 (1975) 283

Physisorption

S. Ross and I.D. Morrison, Computed adsorptive-energy distribution in the monolayer (CAEDMON) 52 (1975) 103
C. Bernard, I. Suzanne, M. Bienfait et P. Hicter, Application d'un modèle de l'état liquide à une monocouche de xénon ou de krypton adsorbées sur la surface (0001) du graphite 52 (1975) 340
B.G. Baker and B.A. Sexton, Electron beam effects in Auger analysis of physisorbed xenon 52 (1975) 353
U. Bauder and E. Fromm, Adsorption of nitrogen and oxygen by vapour-deposited tantalum films 52 (1975) 415
K. Horn and J. Pritchard, Wavelength modulated infrared reflection-absorption spectroscopy: ethane adsorbed on Cu(110) 52 (1975) 437
S. Bukshpan, T. Sonnino and J.G. Dash, Debye–Waller factor of molecules adsorbed on graphite 52 (1975) 466
H. Papp and J. Pritchard, The adsorption of Xe and CO on a Cu(311) single crystal surface 53 (1975) 371
W.Y. Lee and L.J. Slutsky, The interaction of naphthalene and adamantane with gold surfaces 54 (1976) 169
G. McElhiney, H. Papp and J. Pritchard, The adsorption of Xe and CO on Ag(111) 54 (1976) 617
H.M. Kramer and J. Suzanne, Adsorption of krypton on the basal plane of graphite: LEED and Auger measurements 54 (1976) 659
R.H. Roberts and J. Pritchard, Monolayer structures of Kr and Xe on Ag(111) and Cu(211) 54 (1976) 687
J.A. Venables, H.M. Kramer and G.L. Price, Observation of an adsorbed monolayer by transmission high energy electron diffraction 55 (1976) 373
G. Quentel et R. Kern, Approache théorique par ellipsométrie des constants optiques de couches monoatomiques physisorbées 55 (1976) 545
J.N. Schmit, The effect of long-range three-particle forces on the surface energy and physisorption energy of rare gas crystals 55 (1976) 589
F. Millot, Adsorption du krypton sur le chlorure ferrique et contribution à l'énergie d'adsorption des interaction cation–adsorbat 55 (1976) 717
I.P. Batra and C. Brundle Cluster model calculation and photoemission studies of molecularly adsorbed NO on Ni 57 (1976) 12
P.I. Cohen, J. Unguris and M.B. Webb, Xe monolayer adsorption on Ag(111). I. Structural properties 58 (1976) 429
J.T. Yates, Jr., R. Klein and T.E. Madey, Adsorption of molecular nitrogen by the W(110) plane 58 (1976) 469
L.W. Bruch, P.I. Cohen and M.B. Webb, Xe monolayer adsorption on Ag(111). II. Lateral structure and Xe–Xe interactions 59 (1976) 1

G.L. Price and J.A. Venables, A theory of phase transitions in solid krypton and xenon monolayers on graphite 59 (1976) 509
J. Dericbourg, Adsorption de l'oxygène sur le graphite; nouvelle détermination graphique de l'entropie différentielle d'adsorption 59 (1976) 554
J. Dericbourg, Adsorption de l'hydrogène sur le graphite 59 (1976) 565
A. Glachant, J.P. Coulomb and J.P. Biberian, AES and LEED studies of xenon adsorption on (100)NaCl 59 (1976) 619
C. Leung and R. Gomer, A low temperature precursor to chemisorbed oxygen on tungsten (110) 59 (1976) 638
G. McElhiney and J. Pritchard, The adsorption of Xe and CO on Au(100) 60 (1976) 397

Piezo-electric effect

D.C. Tsui and G. Kaminsky, Influence of uniaxial stress on quantum effects in Si inversion layers 58 (1976) 187

Platinum

H.P. Bonzel and T.E. Fischer, An UV photoemission study of NO and CO adsorption on Pt(100) and Ru(1010) surfaces 51 (1975) 213
F.P. Netzer and J.A.D. Mathew, Low energy electron spectroscopy of Pt(100) and Pt(100)/CO 51 (1975) 352
F.P. Netzer and G. Kneringer, The adsorption of hydrogen and the reaction of hydrogen with oxygen on Pt(100) 51 (1975) 526
H.P. Bonzel and J.J. Burton, CO oxidation on a Pt(110) surface: solution of a reaction model 52 (1975) 223
B.G. Baker and B.A. Sexton, Electron beam effects in Auger analysis of physisorbed xenon 52 (1975) 353
F.P. Netzer, Adsorption of cyanogen on Pt(100) 52 (1975) 709
J.J. McCarroll, Surface physics and catalysis 53 (1975) 297
B. Lang, A LEED study of the deposition of carbon on platinum crystal surfaces 53 (1975) 317
P.E.C. Franken and V. Ponec, Ethylene adsorption on thin films of Ni, Pd, Pt, Cu, Au and Al; work function measurements 53 (1975) 341
K. Christmann, G. Ertl and T. Pignet, Adsorption of hydrogen on a Pt (111) surface 54 (1976) 365
R. Ducros and R.P. Merrill, The interaction of oxygen with Pt(110) 55 (1976) 227
D.M. Collins, J.B. Lee and W.E. Spicer, A photoemission and thermal desorption study of carbon monoxide and oxygen adsorbed on platinum 55 (1976) 389
L.E. Firment and G.A. Somorjai, The surface structures of vapor-grown ice and naphthalene crystals studied by low-energy electron diffraction 55 (1976) 413
L. Holmlid and J.O. Olsson, Molecular beam surface ionization detection. I. Absolute ionization coefficients and work function of "low work function" Pt(8%W) surfaces 55 (1976) 523
J. Horkans, Comment on the use of "Kramers–Kronig analysis for the determination of the optical constants of thin surface films" by K. Naegele and W.J. Plieth 55 (1976) 713
W.J. Plieth and K. Naegele, Reply to Comment on the use of "Kramers–Kronig analysis for the determination of the optical constants of thin surface films" 55 (1976) 715
M.A.B. Gültepe, Some considerations on the determination of optical

properties of adsorbed films 56 (1976) 76
B.D. Cahan, Implications of three parameter solutions to the three-layer model 56 (1976) 354
S. Gottesfeld, M. Babai and B. Reichman, Combined ellipsometric and reflectometric measurements of surface processes on noble metal electrodes 56 (1976) 373
S. Gottesfeld, M. Babai and B. Reichman, The analysis of surface processes on solid electrons by combined modulated ellipsometric and reflectometric experiments 57 (1976) 251
M.E. Bridge, R.A. Marbrow and R.M. Lambert, Adsorption of cyanogen and hydrogen cyanide on Pt(110) and Ag(110) 57 (1976) 415
P.D. Reed and R.M. Lambert, Surface crystallography, adsorbate structure, adsorption kinetics and surface reactivity – carbon suboxide (C_3O_2) on Pt(110) 57 (1976) 485
C.M. Comrie, W.H. Weinberg and R.M. Lambert, The adsorption of nitric oxide on Pt(111) and Pt(110) surfaces 57 (1976) 619
M. Alnot, J. Fusy et A. Cassuto, Etude de l'interaction à température ordinaire du monoxyde de carbone gazeux avec de l'oxygène adsorbé sur platine polycristallin 57 (1976) 651
R.A. Shigeishi and D.A. King, Chemisorption of carbon monoxide on platinum {111}: reflection–absorption infrared spectroscopy 58 (1976) 379
I.E. Wachs and R.J. Madix, On the $H_2 - D_2$ exchange on stepped platinum surfaces 58 (1976) 590
B. Carriére and J.P. Deville, Does the Auger peak of oxygen bring information in metal oxidation studies? 58 (1976) 618
I. Lundström and T. DiStefano induced interfacial polarization at $Pd-SiO_2$ interfaces 59 (1976) 23
D.G. Löffler and L.D. Schmidt, Kinetics of NH_3 decomposition on single crystal planes of Pt 59 (1976) 195
B.E. Nieuwenhuys, Influence of the surface structure on the adsorption of hydrogen on platinum, as studied by field emission probe-hole microscopy 59 (1976) 430
R.W. McCabe and L.D. Schmidt, Adsorption of H_2 and CO on clean and oxidized (110)Pt 60 (1976) 85
K. Christmann and G. Ertl, Interaction of hydrogen with Pt(111): the role of atomic steps 60 (1976) 365
M. Wilf and P.T. Dawson, Adsorption of nitrogen on platinum 60 (1976) 561

Polymers

K. Kawasaki and T. Kodama, Relation between activity of sorbed water vapor and wettability on polymer surfaces 51 (1975) 294
R.T. Balmer, The mechanics and energetics of macromolecular interfaces 52 (1975) 174
K.A. Mauritz and A.J. Hopfinger, Theory of the epitaxial crystallization of polymers. IV. Chain packing energetics of the initially deposited monolayer – application to the PE-NaCl system 55 (1976) 81

Quantum mechanics

M. Cini, Alkali atom chemisorption on small metal particles 52 (1975) 75
P. Masri and M. Lannoo, A calculation of the intrinsic (111) surface states of the zinc blende $A^N B^{8-N}$ compounds 52 (1975) 377

R.O. Jones, P.J. Jennings and G.S. Painter, Cluster calculations of the electronic structure of transition metal surfaces 53 (1975) 409
J.C. Phillips, Theory of semiconductor surfaces 53 (1975) 474
J.A.D. Matthew and Y. Komninos, Transition rates for interatomic Auger processes 53 (1975) 716
E.I. Nagaev and G.L. Lazarew, On the mechanism of chemisorption on magnetic semiconductors 54 (1976) 101
W. Ho, S.L. Cunningham and W.H. Weinberg, Single atom chemisorption on a bcc metal 54 (1976) 139
U. Garibaldi, A.C. Levi, R. Spadacini and G.E. Tommei, Quantum theory of molecule–surface scattering: rotational transitions 55 (1976) 40
E.N. Foo and L.G. Johnson, Surface Green function for a semi-infinite unsymmetric sp-band monatomic chain 55 (1976) 189
D.J.M. Fassaert and A. van der Avoird, LCAO studies of hydrogen chemisorption on nickel I. Tight-binding calculations for adsorption on periodic surfaces 55 (1976) 291
A. Horeau, P. Joyes, B. Cabaud and R. Uzan, Electronic structure of selenium aggregates by a self-consistent method including 4d orbitals 57 (1976) 279
E.-N. Foo, M.F. Thorpe and D. Weaire, Effective surface potential method for calculating surface states 57 (1976) 323
V. Anishchik, L.M. Falicov and F. Yndurain, Electronic surface properties of group V semimetals 57 (1976) 375
D. Geschke, W.-D. Hoffmann and D. Deininger, Quantum chemical and NMR investigations on structure of surface complexes 57 (1976) 559
D.E. Ellis, H. Adachi and F.W. Averill, Molecular cluster theory for chemisorption of first row atoms on nickel (100) surfaces 58 (1976) 497
F. Marinelli, A. Julg et G. Abbate, Etude théorique SCF ab initio du système Li_4 pour diverses configuration planes 59 (1976) 319
G. Doyen, Semiempirical model calculations for chemisorption on transition metals. I. Exact solution and discussion of a simple model 59 (1976) 461

Radioactive tracer techniques

F.E. Domann, A radiotracer study of slow electron interaction with CO on polycrystalline Mo 54 (1976) 529
L. Peralta, Y. Berthier and J. Oudar, Adsorption of sulphur on the (110) face of molybdenum 55 (1976) 199

Reactions on surfaces

F.P. Netzer and G. Kneringer, The adsorption of hydrogen and the reaction of hydrogen with oxygen on Pt(100) 51 (1975) 526
B. Kasemo and L. Walldén, Photon and electron emission during halogen adsorption on sodium 53 (1975) 393
R.J. Madix, J.L. Falconer and A.M. Suszko, The autocatalytic decomposition of acetic acid on Ni(110) 54 (1976) 6
E. Gillet, J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
R.P.H. Gasser and D.E. Holt, The decomposition of methanol at low pressures by rhenium 55 (1976) 690

R.H. Muller and C.G. Smith, Ellipsometry of mass-transport boundary layers 56 (1976) 440
M. Alnot, J. Fusy et A. Cassuto, Etude de l'interaction à température ordinaire du monoxyde de carbone gazeux avec de l'oxygène adsorbé sur platine polycristallin 57 (1976) 651
I.E. Wachs and R.J. Madix, On the H_2-D_2 exchange on stepped platinum surfaces 58 (1976) 590
D.G. Löffler and L.D. Schmidt, Kinetics of NH_3 decomposition on single crystal planes of Pt 59 (1976) 195
J.C. Cavalier and E. Chornet, Hydrogen–deuterium exchange on iron: kinetic anisotropies 60 (1976) 125

Reflectance

R. Orlowski and H. Raether, The total reflection of light at smooth and rough silver films and surface plasmons 55 (1976) 349
B.D. Cahan, Implications of three parameter solutions to the three-layer model 56 (1976) 354
S. Gottesfeld, M. Babai and B. Reichman, The analysis of surface processes on solid electrons by combined modulated ellipsometric and reflectometric experiments 57 (1976) 251

Reflection spectroscopy

J. Pritchard, T. Catterick and R.K. Gupta, Infrared spectroscopy of chemisorbed carbon monoxide on copper 53 (1975) 1
P. Chiaradia and S. Nannarone, Optical properties of the clean and slowly oxidized surface of silicon 54 (1976) 547
A. Bewick and J. Robinson, Optical studies of the electrode–electrolyte solution interphase using reflectance methods. II. The electroreflectance effect at a lead electrode 55 (1976) 349
J. Horkans, Comment on the use of "Kramers–Kronig analysis for the determination of the optical constants of thin surface films" by K. Naegele and W.J. Plieth 55 (1976) 713
W.J. Plieth and K. Naegele, Reply to Comment on the use of "Kramers–Kronig analysis for the determination of the optical constants of thin surface films" 55 (1976) 715
D.N. Henty and H.G. Jerrard, A universal ellipsometer 56 (1976) 170
O. Hunderi and R. Ryberg, A simple automatic ellipsometer for a wide energy range 56 (1976) 182
C.C. Matheson, J.G. Wright, R. Gundermann and H. Norris, A high precision, polychromatic, automatic ellipsometer 56 (1976) 196
F. Abelès, Surface electromagnetic waves ellipsometry 56 (1976) 237
D.E. Aspnes, Extending scanning ellipsometric spectra into experimentally inaccessible regions 56 (1976) 322
S. Gottesfeld, M. Babai and B. Reichman, Combined ellipsometric and reflectometric measurements of surface processes on noble metal electrodes 56 (1976) 373

Resistance

C. Pariset et J.P. Chauvineau, L'adsorption du bismuth sur des films minces d'or etudiée par variation de résistance électrique 57 (1976) 363

H. Schneck and G. Wedler, Oscillations of the galvanomagnetic properties of evaporated nickel films due to the adsorption of carbon monoxide 58 (1976) 597

Rhenium

R.P.H. Gasser and D.E. Holt, Simultaneous and sequential adsorption of deuterium and nitrous oxide by rhenium 52 (1975) 457
R. Ducros, G. Piquard, B. Weber et A. Cassuto, Spectres Auger du carbone; carbures de tantale et adsorption d'éthylène et de monoxyde de carbone sur tantale et rhénium polycristallin 54 (1976) 513
R. Ducros, J.J. Ehrhardt, M. Alnot and A. Cassuto, Hydrogen and deuterium adsorption on polycrystalline rhenium surfaces; effect of carbon and oxygen coadsorption 55 (1976) 509
R.P.H. Gasser and D.E. Holt, The decomposition of methanol at low pressures by rhenium 55 (1976) 690
G.K.L. Cranstoun and D.R. Pyke, Field ion microscope observations of surface rearrangement and oxide formation at clean rhenium surfaces heated in oxygen 60 (1976) 157

Ruthenium

H.P. Bonzel and T.E. Fischer, An UV photoemission study of NO and CO adsorption on Pt(100) and Ru(1010) surfaces 51 (1975) 213
J.C. Fuggle, T.E. Madey, M. Steinkilberg and D. Menzel, Photoelectron spectroscopic studies of adsorption of CO and oxygen on Ru(001) 52 (1975) 521
J.C. Fuggle and D. Menzel, Coverage dependent shifts of XPS peaks during chemisorption on metals 53 (1975) 21
P.D. Reed, C.M. Comrie and R.M. Lambert, Chemisorption, surface structural chemistry, and electron impact properties of carbon monoxide on Ru(101) 59 (1976) 33
M. Auboiroux, D. Marchand, P. Tougne, A.P. Legrand and J.C. Thuillier, Non-symmetrical (1210) planes of tellurium correlated to the non-symmetrical epitaxy of selenium deposited on these faces 59 (1976) 218

Secondary ion mass spectroscopy (SIMS)

A. Benninghoven, Developments in secondary ion mass spectroscopy and applications to surface studies 53 (1975) 596
K. Wittmaack, Energy dependence of the secondary ion yield of metals and semiconductors 53 (1975) 626
M. Gettings and J.P. Coad, A preliminary study of pure metal surfaces using Auger electron spectroscopy (AES), X-ray photoelectron spectroscopy (XPS) and secondary ion mass spectroscopy (SIMS) 53 (1975) 636
M. Cini, A new theory of SIMS at metal surfaces 54 (1976) 71
J. Estel, H. Hoinkes, H. Kaarmann, H. Nahr and H. Wilsch, On the problem of water adsorption on alkali halide cleavage planes, investigated by secondary ion mass spectroscopy 54 (1976) 393
F.G. Rüdenauer, W. Steiger and H.W. Werner, On the use of the Saha–Eggert equation for quantitative SIMS analysis using argon primary ions 54 (1976) 553
D. Fuller, J.S. Colligon and J.S. Williams, The application of correlated SIMS and RBS techniques to the measurement of ion implanted range profiles 54 (1976) 647

T. Ishitani, H. Tamura and T. Shinmiyo, Fundamental investigations of secondary ion production during ion bombardment 55 (1976) 179
J.N. Coles, Surface ionization – "plasma" in disquise 55 (1976) 721
P.H. Dawson, The oxidation of aluminum studied by SIMS at low energies 57 (1976) 229
V.T. Cherepin, A.A. Kosyachkov and M.A. Vasilyev, Effect of initial ion bombardment and oxidation on emission of secondary ions 58 (1976) 609

Selenium

A. Hoareau, P. Joyes, B. Cabaud and R. Uzan, Electronic structure of selenium aggregated by a self-consistent method including 4d orbitals 57 (1976) 279

Semiconductor/electrolyte interface, see Solid/electrolyte interface

Semiconductors

B.W. Lee and P. Mark, Effect of Bragg–Williams disorder on reconstructed polar surfaces of tetrahedrally coordinated compound semiconductors by optically simulated LEED patterns 52 (1975) 285
P. Masri and M. Lannoo, A calculation of the intrinsic (111) surface states of the zinc blende $A^N B^{8-N}$ compounds 52 (1975) 377
J.C. Phillips, Theory of semiconductor surfaces 53 (1975) 474
K. Wittmaack, Energy dependence of the secondary ion yield of metals and semiconductors 53 (1975) 626
E.L. Nagaev and G.L. Lazarew, On the mechanism of chemisorption of magnetic semiconductors 54 (1976) 101
D.K. Ferry, Optical and intervalley scattering in quantized inversion layers in semiconductors 57 (1976) 218
H.H. Soonpaa, Electrical conductivity in a conductor 5 atoms thick 58 (1976) 42
D.C. Licciardello and D.J. Thouless, Universality and transport in two-dimensional disordered systems (extended abstract) 58 (1976) 89
K.W. Chiu, T.K. Lee and J.J. Quinn, Infrared magneto-transmittance of a two-dimensional electron gas (extended abstract) 58 (1976) 182
T.K. Lee, C.S. Ting and J.J. Quinn, Microscopic calculation of the Fermi liquid interaction constants for electrons in the surface inversion layer of a semiconductor 58 (1976) 246
W.P. Chen, Y.J. Chen and E. Burstein, The interface EM modes of a "surface quantized" plasma layer on a semiconductor surface (extended abstract) 58 (1976) 263
F. Stern, Recent progress in electronic properties of quasi-two-dimensional systems 58 (1976) 333

Silica, see Silicon oxide

Silicon

E. Hulpke, Scattering of Li^+ from LEED characterized W(110) and Si(111) surfaces at energies between 2 and 20 eV 52 (1975) 615
H. Ibach, Relations between electronic properties of clean surfaces and activated adsorption 53 (1975) 444
J.E. Rowe, Anisotropic photoemission and chemisorption-bond geometry on Ge(111) and Si(111) surfaces 53 (1975) 461

J.C. Phillips, Theory of semiconductor surfaces 53 (1975) 474
A. Benninghoven, Developments in secondary ion mass spectroscopy and applications to surface studies 53 (1975) 596
P.J. Caplan, J.N. Helbert, B.E. Wagner and E.H. Poindexter, Paramagnetic defects in silicon/silicon dioxide systems 54 (1976) 33
N. Kasupke and M. Henzler, Surface state properties of clean cleaved silicon as derived from the temperature dependence of the surface photovoltage 54 (1976) 111
P.H. Holloway, Chemical shifts in Auger electron spectra from silicon in silicon nitride 54 (1976) 506
S. Michel, T.T.A. Nguyen and R. Cinti, Adsorption of indium on (100) and (110) silicon substrates 54 (1976) 509
P. Chiaradia and S. Nannarone, Optical properties of the clean and slowly oxidized surface of silicon 54 (1976) 547
L. Viel, C. Benazeth et N. Benazeth, Spectres Auger sous bombardement d'ions Ar^+ de 60 keV de quelques éléments purs et de composés binaires 54 (1976) 635
D. Fuller, J.S. Colligon and J.S. Williams, The application of correlated SIMS and RBS techniques to the measurement of ion implanted range profiles 54 (1976) 647
T.T.A. Nguyen, S. Michel and R. Cinti, Mean stay times of indium adatoms on (111) silicon surfaces 54 (1976) 679
W.A. Harrison, Surface reconstruction on semiconductors 55 (1976) 1
T. Ishitani, H. Tamura and T. Shinmiyo, Fundamental investigations of secondary ion production during ion bombardment 55 (1976) 179
E.N. Foo and S.G. Davison, Green function theory of chemisorption on sp-hybrid crystals 55 (1976) 274
M. Ohlídal, I. Ohlídal and F. Lukeš, Ellipsometric studies of polished silicon surfaces 55 (1976) 467
A. Koma and R. Ludeke, Core- and valence-electron spectra of clean Si surfaces by energy loss spectroscopy 55 (1976) 735
F. Meyer, Ellipsometric studies of adsorption reactions on clean surfaces 56 (1976) 37
A.-R.M. Zaghloul, R.M.A. Azzam and N.M. Bashara, Inversion of the nonlinear equations of reflection ellipsometry on film–substrate systems 56 (1976) 87
K. Vedam, Characterization of defects in real surface by ellipsometry 56 (1976) 221
J.R. Adams, Complex refractive index and phosphorus concentration profiles in P^+_{31} ion implanted silicon by ellipsometry and Auger electron spectroscopy 56 (1976) 307
M.A. Hopper, R.A. Clarke and L. Young, Removal of oxide films from silicon surfaces in a high vacuum system: an in situ ellipsometric study 56 (1976) 472
J.D. van Otterloo and J.G. de Groot, Relation between interface states and temperature behavior of the barrier height of silver contacts on clean cleaved n-type silicon 57 (1976) 93
D.K. Ferry, Optical and intervalley scattering in quantized inversion layers in semiconductors 57 (1976) 218
Y. Uemura, Theoretical considerations on quantization for carriers in MOS structures 58 (1976) 1
S.J. Allen, Jr., D.C. Tsui and F. DeRosa, Frequency dependence of the inversion layer conductivity in the metallic and localized regimes (abstract only) 58 (1976) 17
H. Ezawa, Inversion layer mobility with intersubband scattering 58 (1976) 25
Y. Kawaguchi and S. Kawaji, Impurity band conduction in cesium adsorbed n-channel Si inversion layers 58 (1976) 33
K. Nakamura, Hot electrons in Si inversion layer 58 (1976) 48

T. Cole, A.A. Lakhani and P.J. Stiles, Fine structure in the field effect mobility of MOS transistors 58 (1976) 56
E. Arnold, Conduction mechanisms in bandtails at the Si–SiO_2 interface 58 (1976) 60
A. Hartstein and A.B. Fowler, Oxide-charge-induced impurity band in silicon inversion layers (abstract only) 58 (1976) 71
M.E. Sjöstrand, T. Cole and P.J. Stiles, Low temperature saturation of the channel conductivity in silicon inversion layers 58 (1976) 72
S. Pollitt, M. Pepper and C.J. Adkins, The Anderson transition in silicon inversion layers 58 (1976) 79
T. Cole, M.E. Sjöstrand and P.J. Stiles, Activated channel conductivity in silicon inversion layers at high temperatures 58 (1976) 91
S. Aymeloglu and J.N. Zemel, Field effect studies on n-channel (100) MOSFET's at 4.2 to 77 K 58 (1976) 98
J.F. Koch, Spectroscopy of surface space charge layers 58 (1976) 104
T. Ando, Density-functional calculation of subband structure on semiconductor surfaces 58 (1976) 128
A. Kamgar and P. Kneschaurek, Spectroscopy of surface charge layers on p-type Si(extended abstract) 58 (1976) 135
E. Bangert and G. Landwehr, Self-consistent calculations of electric subbands in p-type silicon inversion layers (extended abstract) 58 (1976) 138
B. Vinter and F. Stern, Many-body effects in the first excited subband of the n-inversion layer of Si 58 (1976) 141
R.G. Wheeler, Far infrared photoresistive response in silicon inversion layers and electric subband spectra (abstract only) 58 (1976) 146
C.C. Shiue and C.T. Sah, Studies of electron screening effects on the electron mobility in silicon surface inversion layers 58 (1976) 153
F. Stern, Screening and level broadening in inversion layers with random fixed charges 58 (1976) 162
I. Eisele, H. Gesch and G. Dorda, Mechanical stress influence on effective masses in Si inversion layers 58 (1976) 169
A. Hartstein, T.H. Ning and A.B. Fowler, Electron scattering in silicon inversion layers by oxide and surface roughness (extended abstract) 58 (1976) 178
T.A. Kennedy, R.J. Wagner, B.D. McCombe and D.C. Tsui, Frequency dependent effective masses in Si inversion layers at metallic densities 58 (1976) 185
D.C. Tsui and G. Kaminsky, Influence of uniaxial stress on quantum effects in Si inversion layers 58 (1976) 187
A.A. Lakhani and P.J. Stiles, Effect of substrate bias on the mobility and scattering time of electrons in Si inversion layers 58 (1976) 193
J.P. Kotthaus and H. Kübleck, Temperature dependence of the cyclotron resonance in electron inversion layers on Si(extended abstract) 58 (1976) 199
R.J. Wagner, T.A. Kennedy, B.D. McCombe and D.C. Tsui, Frequency dependence of cyclotron resonance in Si inversion layers in the region of activated conductivity 58 (1976) 207
A.A. Lakhani, T.K. Lee and J.J. Quinn, Dependence on substrate bias of the effective mass and Dingle temperature of electrons in the surface inversion layer of silicon 58 (1976) 213
Th. Englert and G. Landwehr, Magneto-transport properties of silicon inversion layers at low carrier densities 58 (1976) 217
R.R. Gerhardts, Cumulant approach to the two-dimensional magneto-conductivity problem 58 (1976) 227
K. Hess, Magnetoresistance of n-silicon inversion layers in the ohmic and in

the hot-electron range 58 (1976) 235
F.J. Ohkawa and Y. Uemura, Valley splitting in an n-channel (100) inversion layer on p-type silicon 58 (1976) 254
T. Neugebauer, K. von Klitzing, G. Landwehr and G. Dorda, Quantum oscillations in (110) and (111) n-channel MOSFET's (extended abstract) 58 (1976) 261
R.A. Rosthal and R.E. Prange, Effects of finite thickness on the interacting electron gas in a surface inversion layer (abstract only) 58 (1976) 325
F.J. Ohkawa, Quasi-particle properties in surface quantized states of silicon 58 (1976) 326
Y.W. Chung, W. Siekhaus and G.A. Somorjai, Studies of acetylene and oxygen adsorption on silicon surfaces by low-energy electron loss spectroscopy 58 (1976) 341
G.M. Guichar, C.A. Sébenne, G.A. Garry and M. Balkanski, Structure dependent oxidation of clean Si(111) surfaces 58 (1976) 374
J.A. Appelbaum, H.D. Hagstrum, D.R. Hamann and T. Sakurai, The effect of disordering on the spectral properties of partial monolayers of H on Si(111) 58 (1976) 479
P.J. Martin, A.R. Bayly, R.J. MacDonald, N.H. Tolk, G.J. Clark and J.C. Kelly, De-excitation processes near the surface of ion bombarded SiO_2 and Si 60 (1976) 349

Silicon nitride

P.H. Holloway, Chemical shifts in Auger electron spectra from silicon in silicon nitride 54 (1976) 506

Silicon oxide

B. Rakvin and J.N. Herak, Proton magnetic resonance parameters of hydroxyl groups on silicagel 51 (1975) 310
P.J. Caplan, J.N. Helbert, B.E. Wagner and E.H. Poindexter, Paramagnetic defects in silicon/silicon dioxide systems 54 (1976) 33
A.-R.M. Zaghloul, R.M.A. Azzam and N.M. Bashara, Inversion of the nonlinear equations of reflection ellipsometry on film–substrate systems 56 (1976) 87
S.M. Ma, D.L. Coleman and J.D. Andrade, Ellipsometry studies of albumin films on tantalum oxide and SiO_2 56 (1976) 117
M.A. Hopper, R.A. Clarke and L. Young, Removal of oxide films from silicon surfaces in a high vacuum system: an in situ ellipsometric study 56 (1976) 472
E. Arnold, Conduction mechanisms in bandtails at the Si–SiO_2 interface 58 (1976) 60
A. Hartstein and A.B. Fowler, Oxide-charge-induced impurity band in silicon inversion layers (abstract only) 58 (1976) 71
I. Lundström and T. DiStefano, Hydrogen induced interfacial polarization at Pd–SiO_2 interfaces 59 (1976) 23
P.J. Martin, A.R. Bayly, R.J. MacDonald, N.H. Tolk, G.J. Clark and J.C. Kelly, De-excitation processes near the surface of ion bombarded SiO_2 and Si 60 (1976) 349

Silicone oil

T.H. Allen, Ellipsometric measurements on vapor deposited organic films 56 (1976) 462

Silver

R.C. Baetzold, Calculated model for metal cluster catalysis: H_2 dissociation 51 (1975) 1
F. Pons, J. Le Héricy and J.P. Langeron, Comments on "AES studies of

surface composition of Ag–Cu alloys" by P. Braun and W. Färber, and on "Quantitative Auger analysis of copper–nickel alloy surfaces after argon ion bombardment" by H. Shimizu, M. Ono and K. Nakayama 51 (1975) 336
P. Braun and W. F"rber, Reply to Comments on "AES studies of surface composition of Ag–Cu alloys" 51 (1975) 342
B.J. Wood and H. Wise, Surface composition of Pd–Au and Pd–Ag catalysts by Auger electron spectroscopy 52 (1975) 151
G. Rovida and F. Pratesi, Chemisorption of oxygen on the silver (110) surface 52 (1975) 542
J.M. McDavid and S.C. Fain, Jr., LEED using a CMA 52 (1975) 670
J.C. Fuggle and D. Menzel, Coverage dependent shifts of XPS peaks during chemisorption on metals 53 (1975) 21
E. Bauer, F. Bonczek, H. Poppa and G. Todd, Thermal desorption of metals from tungsten single crystal surfaces 53 (1975) 87
H.J. Mathieu and D. Landolt, Quantitative Auger electron spectroscopy analysis of Ag–Pd and Ni–Pd alloys 53 (1975) 228
W. Heiland, F. Iberl, E. Taglauer and D. Menzel, Oxygen adsorption on (110) silver 53 (1975) 383
R. Orlowski and H. Raether, The total reflection of light at smooth and rough silver films and surface plasmous 54 (1976) 303
C.T. Horng and R.W. Vook, The anomalous RHEED patterns observed from (111)Ag–(111)Cu bilayers 54 (1976) 309
G. McElhiney, H. Papp and J. Pritchard, The adsorption of Xe and CO on Ag(111) 54 (1976) 617
R.H. Roberts and J. Pritchard, Monolayer structures of Kr and Xe and Ag(111) and Cu(211) 54 (1976) 687
S.H. Overbury and G.A. Somorjai, The surface composition of the silvergold system by Auger electron spectroscopy 55 (1976) 209
P.S. Ho and J.E. Lewis, Deconvolution method for composition profiling by Auger sputtering technique 55 (1976) 335
F. Abelès, Surface electromagnetic waves ellipsometry 56 (1976) 237
E.F.I. Roberts and D. Ross, Anomalous optical constants of this films 56 (1976) 425
J.D. Otterloo and J.G. de Groot, Relation between interface states and temperature behavior of the barrier height of silver contacts on clean cleaved n-type silicon 57 (1976) 93
M.E. Bridge, R.A. Marbrow and R.M. Lambert, Adsorption of cyanogen and hydrogen cyanide on Pt(110) and Ag(110) 57 (1976) 415
H.A. Engelhardt and D. Menzel, Adsorption of oxygen on silver single crystal surfaces 57 (1976) 591
P.I. Cohen, J. Unguris and M.B. Webb, Xe monolayer adsorption on Ag(111). I. Structural properties 58 (1976) 429
L.W. Bruch, P.I. Cohen and M.B. Webb, Xe monolayer adsorption on Ag(111). II. Lateral structure and Xe–Xe interactions 59 (1976) 1
D. Heitmann and H. Raether, Light emission of nonradiative surface plasmons from sinusoidally modulated silver surfaces 59 (1976) 17
R. Bouwman, L.H. Tonemand, M.A.M. Boersma and R.A. van Santen, Surface enrichment in Ag–Au alloys 59 (1976) 72
G.C. Nelson, Determination of the surface versus bulk composition of silver–gold alloys by low energy ion scattering spectroscopy 59 (1976) 310

Silver halides

M.E. Van Hulle, Surface space charge potential in thin silver halides 52 (1975) 513
M.E. Van Hulle, Space charge region in thin AgBr films 58 (1976) 605

Sodium

B. Kasemo and Walldén, Photon and electron emission during halogen adsorption on sodium 53 (1975) 393

Sodium nitrate

M. Elshazly-Zaghloul, R.M.A. Azzam and N.M. Bashara, Explicit solution for the optical properties of a uniaxial crystal in generalized ellipsometry 56 (1976) 281

Soft X-ray emission spectroscopy

P.B. Sewell and D.F. Mitchell, X-ray emission measurements of oxygen on the (0001) and (10$\bar{1}$0) surfaces of tellurium 55 (1976) 367

Solid/electrolyte interface

J.K. Sass, Evidence for an anisotropic volume photoelectric effect in polycrystalline nearly free electron metals 51 (1975) 199

D.M. Kolb and H. Gerischer, Further aspects concerning the correlation between underpotential deposition and work function differences 51 (1975) 323

J.E. Castle and D.C. Epler, The correlation of XPS analysis with electrochemical history in aqueous corrosion 53 (1975) 286

J.W. Schultze and D. Dickertmann, Potentiodynamic desorption spectra of metallic monolayers of Cu, Bi, Pb, Tl and Sb adsorbed at (111), (100), and (110) planes of gold electrodes 54 (1976) 489

A. Bewick and J. Robinson, Optical studies of the electrode–electrolyte solution interphase using reflectance methods. II. The electroreflectance effect at a lead electrode 55 (1976) 349

M.A.B. Gültepe, Some considerations on the determination of optical properties of adsorbed films 56 (1976) 76

B.D. Cahan, Implications of three parameter solutions to the three-layer model 56 (1976) 354

S. Gottesfeld, M. Babai and B. Reichman, Combined ellipsometric and reflectometric measurements of surface processes on noble metal electrodes 56 (1976) 373

J. Kruger and J.R. Ambrose, Qualitative use of ellipsometry to study localized corrosion processes 56 (1976) 394

J.L. Ord, An optical study of the deposition and conversion of nickel hydroxide films 56 (1976) 413

R.H. Muller and C.G. Smith, Ellipsometry of mass-transport boundary layers 56 (1976) 440

S. Gottesfeld, M. Babai and B. Reichman, The analysis of surface processes on solid electrons by combined modulated ellipsometric and reflectometric experiments 57 (1976) 251

A. Hamelin and J. Lecoeur, The orientation dependence of zero charge potentials and surface energies of gold crystal faces 57 (1976) 771

D. Eger, A. Many and Y. Goldstein, Quantum properties of strong accumulation layers on ZnO surfaces 58 (1976) 18

P. Lemasson, A.M. Baticle et P. Vennereau, Mesures d'impédances on électro-

chimie des semi-conducteurs; influence des états de surface 59 (1976) 177
W.H. Laflére, R.L. Van Meirhaeghe, F. Cardon and W.P. Gomes, On the frequency-dependence of the impedance of n- and p-type gallium arsenide electrodes 59 (1976) 401

Sputtering

H.M. Windawi, Effect of temperature on the sputtering yield of copper 55 (1976) 573
P.S. Ho, J.E. Lewis, H.S. Wildman and J.K. Howard, Auger study of preferred sputtering on binary alloy surfaces 57 (1976) 393
H.W. Werner and N. Warmoltz, The influence of selective sputtering on surface composition 57 (1976) 706
H. Iwasaki and S. Nakamura, On the depth profiles by ESCA 57 (1976) 779

Steel

M.P. Hooker and J.T. Grant, Some factors affecting depth profiling measurements using Auger electron spectroscopy 51 (1975) 328
M.P. Seah, Interface adsorption, embrittlement and fracture in metallurgy – a review 53 (1975) 168
M. Guttmann, Equilibrium segregation in a ternary solution: a model for temper embrittlement 53 (1975) 213
F.G. Rüdenauer, W. Steiger and H.W. Werner, On the use of the Saha–Eggert equation for quantitative SIMS analysis using argon primary ions 54 (1976) 553
T. Ishitani, H. Tamura and T. Shinmiyo, Fundamental investigations of secondary ion production during ion bombardment 55 (1976) 179
S.K. Sen, R.P. Gupta and W.H. Chung, Observation of plasmons and density of states in stainless steel 55 (1976) 709
P.C.S. Hayfield, Ellipsometry as an aid in studying metallic corrosion problems 56 (1976) 488

Strontium

A.P. Janssen and R.C. Schoonmaker, An Auger and reflection electron diffraction investigation of oxygen and hydrogen adsorption on strontium surfaces 55 (1976) 109

Sulphur

J.T. Grant, M.P. Hooker and T.W. Haas, Spectrum subtraction techniques in Auger electron spectroscopy 51 (1975) 318
S. Andersson and C. Nyberg, Soft X-ray appearance potential spectroscopy of C, N, O, and S chemisorbed on some 3d transition metals 52 (1975) 489
C. Lea and M.P. Seah, Site competition in surface segregation 53 (1975) 272
J.M. Wilson, LEED and AES study of the interaction of H_2S and Mo(100) 53 (1975) 330
P.M. Marcus, J.E. Demuth and D.W. Jepsen, Determination of the structure of ordered adsorbed layers by analysis of LEED spectra 53 (1975) 501
D.P. Woodruff, Surface structure from angular dependence of Auger electron emission 53 (1975) 538
C. Argile and G.E. Rhead, Calibration in Auger electron spectroscopy by means of coadsorption 53 (1975) 659

L. Viel, C. Benazeth et N. Benazeth, Spectres Auger sous bombardement d'ions Ar^+ de 60 keV de quelques éléments purs et de composés binaires 54 (1976) 635
R.H. Paulson and T.N. Rhodin, Electronic spectra of adsorbed chalcogen atoms: surface cluster approach 55 (1976) 61
L. Peralta, Y. Berthier and J. Oudar, Adsorption of sulphur on the (110) face of molybdenum 55 (1976) 199
G. Allié, E. Blanc and D. Dufayard, Angular distribution of the Auger emission from aluminum and nickel surfaces 57 (1976) 293
J.M. Wilson, Energy loss spectroscopy of sulphide films on Mo(100) 57 (1976) 499
J.W. Gadzuk, Angle resolved Auger surface spectroscopy 60 (1976) 76
W. Losch and A.J. Monhemius, An AES study of a copper–iron sulphide mineral 60 (1976) 196

Surface composition

R. Bouwman, L.H. Toneman, M.A.M. Boersma and R.A. van Santen, Surface enrichment in Ag–Au alloys 59 (1976) 72
G.C. Nelson, Determination of the surface versus bulk composition of silver–gold alloys by low energy ion scattering spectroscopy 59 (1976) 310

Surface conductivity, see also Field effect

M.R. Shanabarger, Chemisorption kinetics of hydrogen on evaporated iron films 52 (1975) 689
L.N. Surnev, Adsorption of sodium and its effect upon some electric properties of clean germanium (111) surfaces 55 (1976) 625
S.J. Allen, Jr., D.C. Tsui and F. DeRosa, Frequency dependence of the inversion layer conductivity in the metallic and localized regimes (abstract only) 58 (1976) 17
D. Eger, A. Many and Y. Goldstein, Quantum properties of strong accumulation layers on ZnO surfaces 58 (1976) 18
H. Ezawa, Inversion layer mobility with intersubband scattering 58 (1976) 25
Y. Kawaguchi and S. Kawaji, Impurity band conduction in cesium adsorbed n-channel Si inversion layers 58 (1976) 33
H.H. Soonpaa, Electrical conductivity in a conductor 5 atoms thick 58 (1976) 42
K. Nakamuta, Hot electrons in Si inversion layer 58 (1976) 48
T. Cole, A.A. Lakhani and P.J. Stiles, Fine structure in the field effect mobility of MOS transistors 58 (1976) 56
C.C. Shiue and C.T. Sah, Studies of electron screening effects on the electron mobility in silicon surface inversion layers 58 (1976) 153
F. Stern, Screening and level broadening in inversion layers with random fixed charges 58 (1976) 162
I. Eisele, H. Gesch and G. Dorda, Mechanical stress influence on effective masses in Si inversion layers 58 (1976) 169
R. Silbermann and G. Landwehr, Quantized electrons and holes in tellurium surfaces (extended abstract) 58 (1976) 252
R.S. Crandall, Properties of surface state electrons on liquid helium 58 (1976) 266
C.L. Zipfel, T.R. Brown and C.C. Grimes, Spectroscopic studies of electron surface states on liquid helium (extended abstract) 58 (1976) 283
R.A. Rosthal and R.E. Prange, Effects of finite thickness on the interacting electron gas in a surface inversion layer (abstract only) 58 (1976) 325

Surface defects

K. Reichelt and D. Alter, The decoration of (h10) rocksalt faces 51 (1975) 557
K. Besocke and H. Wagner, LEED studies on stepped W surfaces 52 (1975) 653
D.W. Bassett, Surface atom displacement processes 53 (1975) 74
K. Besocke and H. Wagner, Adsorption of tungsten on stepped tungsten surfaces studied by work function measurement 53 (1975) 351
H. Ibach, Relations between electronic properties of clean surfaces and activated adsorption 53 (1975) 444
G.G. Summers and H.N. Southworth, The effects of temperature and electrostatic field on tungsten and iridium field-ion emitters 53 (1975) 583
B. Djafari-Rouhani, L. Dobrzynski et G. Allan, Sur l'entropie de vibration des défauts dans l'approximation d'Einstein 55 (1976) 663

Surface diffusion

T. Sakata and S. Nakamura, Surface diffusion of molybdenum atoms on tungsten surfaces 51 (1975) 313
R.A. Shigeishi, Adsorption of methane on a tungsten field emitter 51 (1975) 377
K. Bobev and Z. Mireva, Study of mercury surface diffusion on tantalum with and without an electric field by means of a field emission microscope 51 (1975) 513
M. Wilf and M. Folman, Field electron emission study of nitrogen adsorbed on individual tungsten planes 52 (1975) 10
A.P. Janssen, Electron stimulated desorption of sodium and measurement of surface diffusion on MgO{001} by Auger spectroscopy 52 (1975) 230
D.W. Bassett, Surface atom displacement processes 53 (1975) 74
D. Kashchiev, Kinetics of thin film coalescence due to crystallite surface migration 55 (1976) 477
Vu Thien Binh, R. Uzan et M. Drechsler, Une détermination due coefficient d'auto-diffusion de surface du molybdène 57 (1976) 118
Vu Thien Binh, M. Chaudier, J.C. Couturier, R. Uzan and M. Drechsler, Grain boundary groove evolutions by surface-self-diffusion on a plane and on a wire 57 (1976) 184
L. Ernst, Comments on "Study of mercury surface diffusion on tantalum with and without an electric field by means of a field emission microscope" by K. Bobev and Z. Mireva 57 (1976) 449
J. Kärger, On the correlation between diffusion and self-diffusion processes of adsorbed molecules in a simple microkinetic model 57 (1976) 749
H. Roux, A. Piquet, R. Uzan et M. Drechsler, Une détermination du coefficient d'autodiffusion de surface en présence d'une couche d'adsorption à l'aide de pointes à émission de champ (nickel sur tungstène) 59 (1976) 97
J.F. Mojica and L.L. Levenson, Bulk-to-surface precipitation and surface diffusion of carbon on polycrystalline nickel 59 (1976) 447
P.M. Hall and J.M. Morabito, A formalism for determining grain boundary diffusion coefficients using surface analysis 59 (1976) 624
G.K.L. Cranstoun and D.R. Pyke, Field ion microscope observations of surface rearrangement and oxide formation at clean rhenium surfaces heated in oxygen 60 (1976) 157

Surface energy, see also Surface tension

J. K. Lee, H.I. Aaronson and K.C. Russell, On the equilibrium shape for a non-centro-symmetric γ-plot 51 (1975) 302
E. Arbel and J.W. Cahn, On invariances in surface thermodyanmic properties and their application to low symmetry crystals 51 (1975) 305
R.T. Balmer, The mechanics and energetics of macromolecular interfaces 52 (1975) 174
J.N. Schmidt, The effect of long-range three-particle forces on the surface energy and physisorption energy of rare gas crystals 55 (1976) 589
B. Djafari-Rouhani, L. Dobrzynski et G. Allan, Sur l'entropie de vibration des défauts dans l'approximation d'Einstein 55 (1976) 663
D. Nason and W.A. Tiller, Orientation dependence of the solid/liquid interfacial free energy in binary systems. 57 (1976) 406
T. Matsunaga and Y. Tamai, Calculation of the dispersion force component of the surface energy of some solid metals 57 (1976) 431
J.P. Hirth and C.W. Price, Nonlinear contributions to the relation between surface stress and surface energy 57 (1976) 446
C.W. Price and J.P. Hirth, Surface energy and surface stress tensor in an atomistic model 57 (1976) 509
A. Hamelin and J. Lecoeur, The orientation dependence of zero charge potentials and surface energies of gold crystal faces 57 (1976) 771
R. Kumar and H.E. Grenga, Surface energy anisotropy of tungsten 59 (1976) 612

Surface ionization

J.N. Coles, Surface ionization – "plasma" in disquise 55 (1976) 721

Surface morphology

G. Grange, R. Landers and B. Mutaftschiev, Contact angle and surface morphology of KCl crystal–melt interface studied by the "bubble method" 54 (1976) 445

Surface phonons

R. Ruppin, Surface modes and infrared absorption of coated spheres 51 (1975) 140
R. Djafari-Rouhani, P. Masri et L. Dobrzynski, Possibilité de surstructures d'interface 52 (1975) 29
M. Lagos and L. Birstein, Multiphonon atomic scattering by solid surfaces 52 (1975) 391
A. Mosser, Ch. Burggraf, S. Goldsztaub and Y.H. Ohtsuki, LEED Kikuchi pattern: phonon and plasmon contributions 54 (1976) 580
D.K. Ferry, Optical and intervalley scattering in quantized inversion layers in semiconductors 57 (1976) 218
H. Ezawa, Inversion layer mobility with intersubband scattering 58 (1976) 25
K. Nakamura, Hot electrons in Si inversion layer 58 (1976) 48
H. Fukuyama, Two-dimensional Wigner crystal in magnetic fields 58 (1976) 320
D. Castiel, L. Dobrzynski and D. Spanjaard, Surface phonons and superstructures – an application: transition metals 59 (1976) 252
D. Castiel, L. Dobrzynski and D. Spanjaard, Surface phonons and superstructures for adsorbate–substrate systems of rare gas solids 60 (1976) 269

Surface photovoltage

L.J. Brillson, Observation of extrinsic surface states on (11$\bar{2}$0)CdS 51 (1975) 45
J.R. Maltby, C.E. Reed and C.G. Scott, Analysis of the surface photovoltaic effect in photoconductors: CdS 51 (1975) 89
N. Kasupke and M. Henzler, Surface state properties of clean cleaved silicon as derived from the temperature dependence of the surface photovoltage 54 (1976) 111
S.C. Dahlberg, Photovoltage studies of clean and oxygen gallium arsenide 59 (1976) 83
S. Simov, M. Kalitzova, E. Nikolova and I. Baltov, Surface photovoltage spectroscopy study of CdS thin films 59 (1976) 115
S.C. Dahlberg, Photovoltage studies of n-type InP(100) 60 (1976) 231

Surface plasmons

J. Bandet, L. Touzillier, A. Malavaud et Y. Quimener, Etude d'une surface de NaCl(100) par diffraction inélastique d'électrons lents 51 (1975) 174
L.S. Cota Araiza and B.D. Powell, Study of surface dissociation in KCl and LiF by observation of plasmon losses associated with K and Li 51 (1975) 504
S.A. Flodström, G.V. Hansson, S.B.M. Hagström and J.E. Endriz, Photoemission with polarized light from free-electron and transition metals 53 (1975) 156
R. Orlowski and H. Raether, The total reflection of light at smooth and rough silver films and surface plasmons 54 (1976) 303
R. Brako and M. Šunjić, Surface plasmon excitation in field ion emission 54 (1976) 434
A. Mosser, Ch. Burggraf, S. Goldsztaub and Y.H. Ohtsuki, LEED Kikuchi pattern: phonon and plasmon contributions 54 (1976) 580
S.K. Sen, R.P. Gupta and W.H. Chung, Observation of plasmons and density of states in stainless steel 55 (1976) 709
J.M. Wilson, Energy loss spectroscopy of sulphide films on Mo(100) 57 (1976) 499
C.C. Grimes and G. Adams, Plasmons in a sheet of electrons on liquid helium (extended abstract) 58 (1976) 292
D. Heitmann and H. Raether, Light emission of nonradiative surface plasmons from sinusoidally modulated silver surfaces 59 (1976) 17
R.G. Forbes, Comment on "Surface plasmon excitation in field ion emission" by R. Brako and M. Šunjić 60 (1976) 260
R. Brako, M. Šunjić and A. Lucas, On the plasmon interpretation of the secondary structure in field ion emission spectra 60 (1976) 262

Surface potential

M.E. Van Hulle, Surface space charge potential in thin silver halides 52 (1975) 513
H. Papp and J. Pritchard, The adsorption of Xe and CO on a Cu(311) single crystal surface 53 (1975) 371
G. McElhiney, H. Papp and J. Pritchard, The adsorption of Xe and CO on Ag(111) 54 (1976) 617
R.H. Roberts and J. Pritchard, Monolayer structures of Kr and Xe on Ag(111) and Cu(211) 54 (1976) 687
K. Horn and J. Pritchard, Infrared spectrum of CO chemisorbed on Cu(100) 55 (1976) 701
P.D. Reed and R.M. Lambert, Surface crystallography, adsorbate structure adsorption kinetics and surface reactivity – carbon suboxide (C_3O_2) on Pt(110) 57 (1976) 485
J.P. Muscat, Response function for a finite step potential model 58 (1976) 557

M.E. Van Hulle, Space charge region in thin AgBr films 58 (1976) 605
R. Duš and W. Lisowski, Studies on the possibility of determination of surface area of palladium films by means of adsorption of hydrogen or oxygen and reciprocal titration of these gases 59 (1976) 141
G. McElhiney and J. Pritchard, The adsorption of Xe and CO on Au(100) 60 (1976) 397

Surface preparation

A.B. Winterbottom, Summary of conditions for precision in applications of ellipsometry to surface and film studies 56 (1976) 1

Surface roughness

M. Ohlídal, I. Ohlídal and F. Lukeš, Ellipsometric studies of polished silicon surfaces 55 (1976) 467
B. Djafari-Rouhani, L. Dobrzynski et G. Allan, Sur l'entropie de vibration des défauts dans l'approximation d'Einstein 55 (1976) 663
K. Vedam, Characterization of defects in real surfaces by ellipsometry 56 (1976) 221
T. Smith, Effect of surface roughness on ellipsometry of aluminum 56 (1976) 252
J.K. Grepstad, P.O. Gartland and B.J. Slagsvold, Anisotropic work function of clean and smooth low index faces of aluminium 57 (1976) 348
A. Hartstein, T.H. Ning and A.B. Fowler, Electron scattering in silicon inversion layers by oxide and surface roughness (extended abstract) 58 (1976) 178
D. Heitmann and H. Raether, Light emission of nonradiative surface plasmons from sinusoidally modulated silver surfaces 59 (1976) 17

Surface segregation

M.P. Seah, Interface adsorption, embrittlement and fracture in metallurgy – a review 53 (1975) 168
M. Guttmann, Equilibrium segregation in a ternary solution: a model for temper embrittlement 53 (1975) 213
C. Lea and M.P. Seah, Site competition in surface segregation 53 (1975) 272
D. Nason and W.A. Tiller, Orientation dependence of the solid/liquid interfacial free energy in binary systems 57 (1976) 406
J.J. Burton, C.R. Helms and R.S. Polizzotti, Surface segregation in alloys: existence of ordered overlayers of Au segregated to the Ni(111) surface 57 (1976) 425
L.C. Isett and J.M. Blakely, Segregation isosters for carbon at the (100) surface of nickel 58 (1976) 397
J.F. Mojica and L.L. Levenson, Bulk-to-surface precipitation and surface diffusion of carbon on polycrystalline nickel 59 (1976) 447
J. Jupille et A. Cassuto, Interaction de l'oxygène aux basses pressions avec la solution solide niobium–oxygène à haute température. I. Equilibre de segrégation–chimisorption 60 (1976) 177

Surface states

K. Jacobi, Surface states on phosphorus- and gallium-rich GaP($\bar{1}\bar{1}\bar{1}$) surfaces in electron energy-loss spectroscopy and photoemission 51 (1975) 29
L.J. Brillson, Observation of extrinsic surface states on (11$\bar{2}$0)Cds 51 (1975) 45
P. Masri and M. Lannoo, A calculation of the intrinsic (111) surface states of

the zinc blende $A^N B^{8-N}$ compounds 52 (1975) 377
V. Heine, Electron states at surfaces (abstract only) 53 (1975) 408
N. Kasupke and M. Henzler, Surface state properties of clean cleaved silicon as derived from the temperature dependence of the surface photovoltage 54 (1976) 111
J.C. Phillips and K.C. Pandey, Surfaces in photoemission spectra of GaAs 54 (1976) 183
S.J. Gurman, Theory of surface states. II. The copper and tungsten (001) surfaces 55 (1976) 93
E.N. Foo and L.G. Johnson, Surface Green function for a semi-infinite unsymmetric sp-band monatomic chain 55 (1976) 189
E.-N. Foo, M.F. Thorpe and D. Weaire, Effective surface potential method for calculating surface states 57 (1976) 323
V. Anishchik, L.M. Falicov and F. Yndurain, Electronic surface properties of group V semimetals 57 (1976) 375
R.S. Crandall, Properties of surface state electrons on liquid helium 58 (1976) 266
C.L. Zipfel, T.R. Brown and C.C. Grimes, Spectroscopic studies of electron surface states on liquid helium (extended abstract) 58 (1976) 283
P.M. Platzman and N. Tzoar, Many body effects in the absorption spectrum of electrons in two-dimensional systems (extended abstract) 58 (1976) 289
T.R. Brown and R.W. Hockney, A phase transition in a classical electron film (extended abstract) 58 (1976) 295
F.J. Ohkawa, Quasi-particle properties in surface quantized states of silicon 58 (1976) 326
S. Simov, M. Kalitzova, E. Nikolova and I. Baltov, Surface photovoltage spectroscopy study of CdS thin films 59 (1976) 115
P. Lemasson, A.M. Baticle et P. Vennereau, Mesures d'impédances en électrochimie des semi-conducteurs; influence des états de surface 59 (1976) 177
D. Castiel, L. Dobrzynski and D. Spanjaard, Surface phonons and superstructures – an application: transition metals 59 (1976) 252

Surface stress

C.W. Price and J.P. Hirth, Surface energy and surface stress tensor in an atomistic model 57 (1976) 509

Surface structure, see also Low-energy electron diffraction

L.McDonnell, D.P. Woodruff and B.W. Holland, Angular dependence of Auger electron emission from Cu(111) and (100) surfaces 51 (1975) 249
B. Djafari-Rouhani, P. Masri et L. Dobrzynski, Possibilité de surstructures d'interface 52 (1975) 29
D. Aberdam, R. Baudoing and C. Gaubert, Medium energy electron diffraction on aluminum 52 (1975) 125
B.W. Lee and P. Mark, Effect of Bragg–Williams disorder on reconstructed polar surfaces of tetrahedrally coordinated compound semiconductors by optically simulated LEED patterns 52 (1975) 285
P. Jewsbury, On the interpretation of rainbow scattering in gas atom/surface collisions 52 (1975) 325
V.S. Sundaram and P. Wynblatt, A Monte Carlo study of surface segregation in alloys 52 (1975) 569
J.C. Phillips, Theory of semiconductor surfaces 53 (1975) 474
M. Baines, A. Howie and S.K. Anderson, Crystalline effects in backsetting

and Auger production 53 (1975) 546
W.A. Harrison, Surface reconstruction on semiconductors 55 (1976) 1
G. Boato, P. Cantini and L. Mattera, A study of the (001) LiF surface at 80 K by means of diffractive scattering of He en Ne atoms at thermal energies 55 (1976) 141
J.P. Bibérian and M. Huber, A model of structures of monolayers adsorbed on (100) faces of metals; a comparative study of various systems in the high symmetry coincidence mesh hypothesis 55 (1976) 259
G.J. Russell, RHEED study of the polar {111} surfaces of InSb and GaSb 55 (1976) 380
K. Senzaki, K. Kuriyama and K. Kawasaki, Surface structure of titanium observed by field emission microscope 55 (1976) 697
G. Allié, E. Blanc and D. Dufayard, Angular distribution of the Auger emission from aluminum and nickel surfaces 57 (1976) 293
D. Aberdam, R. Baudoing, E. Blanc and C. Gaubert, Theory of angular dependence in electron emission from surfaces; application to Auger emission from several metal surfaces 57 (1976) 306
W. Krakow and D.G. Ast, Surface structure and surface lattice constant of (001) vapor deposited Au films using high resolution transmission electron microscopy 58 (1976) 485
L.W. Bruch, P.I. Cohen and M.B. Webb, Xe monolayer adsorption on Ag(111). II. Lateral structure and Xe–Xe interactions 59 (1976) 1
T. Adachi and S. Nakamura, Field evaporation end form at 4.2 K 59 (1976) 61
J.W. Gadzuk, Angle resolved Auger surface spectroscopy 60 (1976) 76
D. Castiel, L. Dobrzynski and D. Spanjaard, Surface phonons and superstructures for adsorbate–substrate systems of rare gas solids 60 (1976) 269

Surface tension, see also Surface energy

K. Kawasaki and T. Kodama, Relation between activity of sorbed water vapor and wettability on polymer surfaces 51 (1975) 294
R.T. Balmer, The mechanics and energetics of macromolecular interfaces 52 (1975) 174
E. Ruckenstein and P.S. Lee, The wetting angle of very small and large drops 52 (1975) 298
P. Laty, J.C. Joud and P. Desre, Surface tensions of binary liquid alloys with strong chemical interactions 60 (1976) 109
J.G. Dash, J. Suzanne, H. Shechter and R.E. Peierls, Direct measurement of spreading pressures of films adsorbed on crystalline substrates 60 (1976) 411

Tantalum

A.G. Elliot, The condensation of gold onto tantalum (100) single crystal surface: LEED, AES analysis 51 (1975) 489
K. Bobev and Z. Mireva, Study of mercury surface diffusion on tantalum with and without an electric field by means of a field emission microscope 51 (1975) 513
B. Weber, J.L. Philippart et A. Cassuto, Interactions du chlore sous base pression avec le tantale à haute température 52 (1975) 311
U. Bauder and E. Fromm, Adsorption of nitrogen and oxygen by vapour-deposited tantalum films 52 (1975) 415
M.M. Traum and N.V. Smith, Repeated zones and Mahan cones in the angular dependences of photoemission 53 (1975) 121
R. Ducros, G. Piquard, B. Weber et A. Cassuto, Spectres Auger du carbone; carbures de tantale et adsorption d'éthylène et de monoxyde de carbone sur

tantale et rhénium polycristallin 54 (1976) 513
J.Y. Caradec, J.L. Philippart, B. Weber et A. Cassuto, Etude par spectrométrie de masse en vision directe des interactions sous basse pression du pentachlorure de tantale avec le tantale à haute température 54 (1976) 593
L. Ernst, Comments on "Study of mercury surface diffusion on tantalum with and without an electric field by means of a field emission microscope" by K. Bobev and Z. Mireva 57 (1976) 449
J.P. Biberian, Another model for the condensation of gold on tantalum (100) 59 (1976) 307
M. Blaszczyszyn, Work function of adsorption systems potassium on tantalum and on molybdenum 59 (1976) 533

Tantalum chalcogenides

M.M. Traum and N.V. Smith, Repeated zones and Mahan cones in the angular dependence of photoemission 53 (1975) 121
F.J. DiSalvo, Charge density waves in layered compounds 58 (1976) 297

Tantalum nitride

J.R. Adams and D.K. Kramer, A study of the oxidation of tantanlum nitride by ellipsometry and Auger electron spectroscopy 56 (1976) 482

Tantalum oxide

S.M. Ma, D.L. Coleman and J.D. Andrade, Ellipsometry studies of albumin films in tantalum oxide and SiO_2 56 (1976) 117

Tellurium

A. Salwén and J. Rundgren, The structure of the p(2 × 2) tellurium overlayer on the (001) surface of copper investigated by LEED 53 (1975) 523
P.B. Sewell and D.E. Mitchell, X-ray emission measurements of oxygen on the (0001) and (10$\bar{1}$0) surfaces of tellurium 55 (1976) 367
M. von Ortenberg and R. Silbermann, Surface cyclotron resonance of accumulation and inversion layers in tellurium (extended abstract) 58 (1976) 202
R. Silbermann and G. Landwehr, Quantized electrons and holes in tellurium surfaces (extended abstract) 58 (1976) 252
M. Auboiroux, D. Marchand, P. Tougne, A.P. Legrand and J.C. Thuillier, Non-symmetrical (12$\bar{1}$0) planes of tellurium correlated to the non-symmetrical epitaxy of selenium deposited on these faces 59 (1976) 218

Temper embrittlement

M.P. Seah, Interface adsorption, embrittlement and fracture in metallurgy – a review 53 (1975) 168
M. Guttmann, Equilibrium segregation in a ternary solution: a model for temper embrittlement 53 (1975) 213

Thermal desorption, see also Flash desorption

S. Sinharoy and M. Henzler, Binding states of water vapor on cleaved germanium 51 (1975) 75

T. Engel, H. Niehaus and E. Bauer, Adsorption of oxygen on W(110). I. The p(2 × 1) structure 52 (1975) 237
G. Rovida and F. Pratesi, Chemisorption of oxygen on the silver (110) surface 52 (1975) 542
C.R. Helms and R.J. Madix, Molecular beam relaxation spectrometry (MBRS) measurement of the desorption rate constant for CO on Ni(110) 52 (1975) 677
M.R. Shanabarger, Chemisorption kinetics of hydrogen on evaporated iron films 52 (1975) 689
E. Bauer, F. Bonczek, H. Poppa and G. Todd, Thermal desorption of metals from tungsten single crystal surfaces 53 (1975) 87
D. Edwards, Jr., Peak widths of elementary first and second order desorption transients 54 (1976) 1
K. Christmann, G. Ertl and T. Pignet, Adsorption of hydrogen on a Pt(111) surface 54 (1976) 365
E. Gillet, J.C. Chiarena et M. Gillet, Etude par spectrométrie Auger et par spectromètrie de masse de la chimisorption de l'oxyde de carbone sur le molybdène polycristallin 54 (1976) 601
E. Gillet, J.C. Chiarena et M. Gillet, Décomposition thermique du monoxide de carbone sur une surface de molybdène: formation de couches superficielles de carbone et de carbure 55 (1976) 126
D.M. Collins, J.B. Lee and W.E. Spicer, A Photoemission and thermal desorption study of carbon monoxide and oxygen adsorbed on platinum 55 (1976) 389
R. Ducros, J.J. Ehrhardt, M. Alnot and A. Cassuto, Hydrogen and deuterium adsorption polycrystalline rhenium surfaces; effect of carbon and oxygen coadsorption 55 (1976) 509
L.N. Surnev, Adsorption of sodium and its effect upon some electric properties of clean germanium (111) surfaces 55 (1976) 625
M.E. Bridge, R.A. Marbrow and R.M. Lambert, Adsorption of cyanogen and hydrogen cyanide on Pt(110) and Ag(110) 57 (1976) 415
H. Conrad, G. Ertl, J. Küppers and E.E. Latta, Adsorption of CO on clean and oxygen covered Ni(111) surfaces 57 (1976) 475
K. Jacobi, G. Steinert and W. Ranke, Iodine etching of the GaAs($\bar{1}\bar{1}\bar{1}$)As surface studied by LEED, AES, and mass spectroscopy 57 (1976) 571
C.M. Comrie, W.H. Weinberg and R.M. Lambert, The adsorption of nitric oxide on Pt(111) and Pt(110) surfaces 57 (1976) 619
D.I. Hagen, B.E. Nieuwenhuys, G. Rovida and G.A. Somorjai, Low-energy electron diffraction, Auger electron spectroscopy, and thermal desorption studies of chemisorbed CO and O_2 on the (111) and stepped [6(111) × (100)] iridium surfaces 57 (1976) 632
R.A. Shigeishi and D.A. King, Chemisorption of carbon monoxide on platinum {111}: reflection-absorption infrared spectroscopy 58 (1976) 379
J.T. Yates, Jr., R. Klein and T.E. Madey, Adsorption of molecular nitrogen by the W(110)-plane 58 (1976) 469
P.D. Reed, C.M. Comrie and R.M. Lambert, Chemisorption, surface structural chemistry, and electron impact properties of carbon monoxide on Ru(101) 59 (1976) 33
B.E. Nieuwenhuys, D.J. Hagen, G. Rovida and G.A. Somorjai, LEED, AES and thermal desorption studies of chemisorbed hydrogen and hydrocarbons (C_2H_2, C_2H_4, C_6H_6, C_6H_{12}) on the (111) and stepped [6(111) × (100)] iridium crystal surfaces; comparison with platinum 59 (1976) 155
C. Leung and R. Gomer, A low temperature precursor to chemisorbed oxygen on tungsten (110) 59 (1976) 638
T.V. Vorburger, D.R. Sandstrom and B.J. Waclawski, The displacement of

hydrogen by carbon monoxide on the (100) face of tungsten: a photoemission and thermal desorption study 60 (1976) 211
K. Christmann and G. Ertl, Interaction of hydrogen with Pt(111): the role of atomic steps 60 (1976) 365
G.L. Price, B.A. Sexton and B.G. Baker, The chemisorption of nitric oxide on (110) nickel studied by LEED, AES and thermal desorption 60 (1976) 506
M. Wilf and P.T. Dawson, Adsorption of nitrogen on platinum 60 (1976) 561

Thermionic emission

T.E. Sullivan, P.H. Cutler and A.A. Lucas, Thermal and field emission effects of laser radiation on metal whisker diodes: application to infrared detection devices 54 (1976) 561

Thin films

N.A. Surplice and W. Brearley, The adsorption of carbon monoxide, ammonia, and wet air on gold 52 (1975) 62
I.G. Higginbotham, R.H. Williams and A.J. McEvoy, Adhesion at gold–mica interfaces (abstract only) 53 (1975) 581
F.K. Schulte, A theory of thin metal films: electron density, potentials and work function 55 (1976) 427
D. Kashchiev, Kinetics of thin film coalescence due to crystallite surface migration 55 (1976) 477
D. Kawabata and K. Ichiji, Optical anisotropy in the plane parallel to the surface of obliquely evaporated gold films 56 (1976) 316
C. Pariset et J.P. Chauvineau, L'adsorption du bismuth sur des films minces d'or etudiée par variation de résistance électrique 57 (1976) 363
E. Canel, Dynamic screening in very thin films (abstract only) 58 (1976) 147
W. Krakow and D.G. Ast, Surface structure and surface lattice constant of (001) vapor deposited Au films using high resolution transmission electron microscopy 58 (1976) 485

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T.N. Taylor, C.A. Colmenares, R.L. Smith and G.A. Somorjai, The thorium (100) crystal face; a study of its cleaning, surface structure, and interaction with oxygen and carbon monoxide 54 (1976) 317

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C. Lea and M.P. Seah, Site competition in surface segregation 53 (1975) 272
R.A. Powell and W.E. Spicer, Photoemission study of oxygen chemisorption on tin 55 (1976) 681
O. Nishikawa and A.R. Saadat, Field emission and field ion microscope study of Ga, In and Sn on W: structure, work function, diffusion and binding energy 60 (1976) 301

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J.S. Solomon and W.L. Baun, Molecular orbital effects on the Ti LMV Auger spectra of TiO and TiO_2 51 (1975) 228

J.T. Grant, M.P. Hooker and T.W. Haas, Appearance potential spectroscopy: relative signal strengths from 3d transition metals 51 (1975) 433
C. Nyberg, The reaction of oxygen with Ti, Cr, Fe and Ni studied by appearance potential spectroscopy 52 (1975) 1
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P.M. Hall and J.M. Morabito, A formalism for extracting diffusion coefficients from concentration profiles 54 (1976) 79
H.D. Shih, K.O. Legg and F. Jona, Interfacial and plasmon-decay peaks in the Auger spectra of titanium and iron 54 (1976) 355
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D.A. Bryan, D.L. Begley, K. Bhasin, R.W. Alexander, R.J. Bell and R. Gerson, Propagation distance of surface electromagnetic waves on two metal–oxide–air systems 57 (1976) 53

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A. Hurkmans, E.G. Overbosch and J. Los, Trapping probabilities and desorption energies of alkali atoms on a clean and an oxygen covered tungsten (110) surface 59 (1976) 488
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T.V. Vorburger, D.R. Sandstrom and B.J. Waclawski, The displacement of hydrogen by carbon monoxide on the (100) face of tungsten: a photoemission and thermal desorption study 60 (1976) 211
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T.S. Chen, G.P. Alldredge and F.W. Wette, Studies of vibrational surface modes in ionic crystals. II. Surface enhancement of the thermal mean-square amplitudes for the (001) face of LiF, MgO, NaF, NaCl, NaI, RbF, and RbCl 57 (1976) 25
R. Pauling and J.A. Ramsey, On the high temperature limit Debye model in LEED 58 (1976) 575

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P.R. Antoniewicz, On the Surface-induced dipole moments of adsorbed molecules 52 (1973) 703
P.E.C. Franken and V. Ponec, Ethylene adsorption on thin films of Ni, Pd, Pt, Cu, Au and Al; work function measurements 53 (1975) 341
K. Besocke and H. Wagner, Adsorption of tungsten on stepped tungsten surfaces studied by work function measurement 53 (1975) 351
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F.K. Schulte, A theory of thin metal films; electron density, potentials and work function 55 (1976) 427
L. Holmlid and J.O. Olsson, Molecular beam surface ionization detection. I. Absolute ionization coefficients and work function of "low work function" Pt(8%W) surfaces 55 (1976) 523
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J. Grepstad, P.O. Gartland and B.J. Slagsvold, Anisotropic work function of clean and smooth low index faces of aluminum 57 (1976) 384
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Contributions may be written in English, German or French. They should be submitted in **triplicate** with original drawings of the figures (no larger than ca. 20 × 30 cm) and an abstract in English. All manuscripts originating in France, whether in French or in English, should be submitted to the Regional Editor in France. All manuscripts originating in the Federal Republic of Germany, the Democratic Republic of Germany and Austria, whether in German or in English, should be submitted to the Regional Editor in Germany. All manuscripts originating in European Countries, other than those mentioned above, as well as those originating in Africa, should be submitted to the Regional Editor in the Netherlands. All manuscripts originating in North and South America, in Asia, in Australia or New Zealand, should be submitted to the Editor.

Papers not exceeding 1000 words in length, and with a modest number of illustrations should be submitted as "Letters to the Editor". Comments on papers published in Surface Science are welcomed in the form of "Letters to the Editor". The submission of a paper will be taken to imply that the author has satisfied himself that no copyright will thereby be infringed.

In a general way, contributors are invited to follow the recommendations of the Symbols and Units nomenclature Commission of the IUPAP. Symbols of scalar quantities are printed in italics (e.g. D for a diffusion constant, l for a length, p for a pressure). Vectors are printed in bold type, indicated by wavy underlining in the text or in formulae. All letters or groups of letters representing functions (exp, sin, log), units (cm, dyne, atm), chemical symbols or any abbreviations not representing a quantity (d-shell, n = neutron); names of places or organisations (AERE, ANL) are printed in ordinary type, and should be left in the typescript without underlining or full stops.

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